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REGIONAL PATTERNS OF ENERGY CONSUMPTION IN THE U.S., 1967

by

R. Thomas Van Arsdall

February, 1975

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R. Thomas Van Arsdall

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1. Direct energy consumption of distillate and residual fuel oils by 2-digit manufacturing SIC's in 51 regions.
2. Direct energy consumption of each of 5 energy forms by 98 sectors in 51 regions.
3. Overview of data quality. Recommendations for improvements in data base and suggestions for future analytical research.

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ABSTRACT

The goal of this research is to generate as accurately as possible the spatial patterns of direct energy consumption in the U.S. in 1967. The energy forms examined are coal, crude oil, refined petroleum products (distillates, residuals, etc.), electricity, and natural gas. The physical units are converted to Btu's, with regional values where available. National energy use data are used as controls. The system is disaggregated to 51 regions and 97 sectors, plus final demand. The sectoral breakdown of consumption is carried out as far as possible, with interpolation where necessary. The methodology, results, and data sources are evaluated.

Results include three major end products:

1. Direct energy consumption of distillate and residual fuel oils by two-digit manufacturing SIC's in 51 regions.
2. Direct energy consumption of each of the five energy forms by 98 sectors in 51 regions.
3. Overview of data quality. Recommendations for improvements in data base and suggestions for future analytical research.

1. INTRODUCTION*

The average individual tends to think of his personal energy requirements as the fuel and electricity he uses in his home and the gasoline he purchases to power his automobile. That used by industry he regards as divorced from his own needs. However, the consumer is the raison d'être of the entire economic chain. On the average, over half of the total energy required by an individual is indirect -- used in producing the non-energy goods and services which he demands.

Only recently has research been undertaken and completed to determine the energy content of goods and services. A few studies examine the energy inputs of specific products [6, 16, 18]. One major contribution presents the direct and indirect energy requirements per dollar output of each of the 369 national economic sectors for 1963 [18].

However, a key dimension of the energy system is yet to be explored -- that is, the regional component. Impact and change are not distributed uniformly across space. The energy picture of each state varies considerably, often extremely, from the national norm for each economic sector. Industry in Texas is dependent on electricity which is generated almost entirely by burning natural gas. The textile industry in New England consumes a different fuel mix than does the same activity in the Piedmont area. Hardly any coal enters the West Coast market. These examples serve to illustrate the varying conditions which would be affected differently by changes in energy policy.

A continuing dearth of accurate information about the regional level creates an unnecessarily high probability for unexpected impacts in dealing with the energy phase of the economy. Provided with an awareness of the distribution characteristics of energy use, the policy maker may become more effective in dealing with the potential regional impacts of various alternatives.

---

* The bulk of this research was completed while the author was a member of the Energy Research Group at the Center for Advanced Computation, University of Illinois. He currently is an agricultural economist with the U.S. Department of Agriculture.

1.1 The Problem

The goal of this research is to determine, as accurately as possible, the spatial patterns of direct energy consumption for the U.S. in 1967. The primary function of this research is to provide regional data to complement the study cited in [13]. The 1967 national controls are accurate as of January, 1975. A more complete description of the methodology used in the national study is provided in the 1963 version [18]. Seven basic statements combine to describe the major features of this endeavor:

I. The elements of the system are:
   - A. 51 regions (the states, plus Washington, D.C.)
   - B. 97 industries, plus final demand; the industries conform to the standard 87-sector, input-output definitions, with the transportation and energy sectors examined in more detail (See Appendix B for sector definitions)

II. Five energy forms are examined:
   - A. Gas
   - B. Coal
   - C. Electricity
   - D. Refined petroleum products
     1. Distillate fuel oil
     2. Residual fuel oil
   - E. Crude oil and gas

III. These are expressed in a common unit, Btu's, by converting from physical units, using regional conversion factors where available.

IV. The sectoral breakdown of consumption is carried out as far as possible, with interpolation where necessary.

V. The national energy-use data at the 369 sector level of detail are aggregated to 98 sectors and are used as final controls.

VI. The data sources are documented carefully.

VII. The results include the following data arrays:
   - A. Direct requirements for distillate fuel oil and residual fuel oil by 20, two-digit SIC manufacturing sectors in 51 regions in 1967
   - B. Direct energy requirements for each of the five energy forms by 98 sectors in 10 regions in 1967
   - C. Supplemental data are contained in the Appendices

1.2 Contents of Report

Section 2 describes the procedures used to calculate each regional energy data array. Data sources are documented. Summary results and brief comments about the final tables are presented in Section 3. Section 4 reviews and evaluates the procedures and results. Data sources used are commented on, and both existing and potential alternative sources are reviewed. In Section 5 recommendations for additional research conclude the main body of the report. The key sources are cited in the List of References and are referred to when appropriate in the report. Appendices present more complete explanations and supportive tables where necessary. The final appendices show the direct requirements for each of the five energy forms in 51 regions at the 98 sector level of detail.

2. PROCEDURE

The basic procedure to be employed in calculating E^h_{mj}--the direct energy requirement in sector j and state h in 1967 of each fuel m (Btu's)--is as follows: For each fuel m:*

1. The 1967 national, energy-consumption data (E_{mj} - Btu's of fuel m directly required by sector j), at the 98 sector level of detail, are used as control totals [13].
2. The regional data sources are documented and are described briefly.
3. The national totals (E_{mj}) are allocated regionally through one or more steps.

Ideally, the data would be available in 98 sector detail. Then:**

$$E^h_{mj} = \left[\frac{Q^h_{mj} \times B^h_{mj}}{\sum_h (Q^h_{mj} \times B^h_{mj})} \right] \times E_{mj}$$

The quantity in physical units (tons, barrels, etc.) of fuel m used by sector j in state h, times the regional conversion factor in Btu's per physical unit--$Q^h_{mj} \times B^h_{mj}$-- is taken as a fraction of the summed total. This weight is used in allocating the national control to the states--$E_{mj} \rightarrow E^h_{mj}$.

Unfortunately, the realities of data availability normally restrict Q^h_{mj} considerably below the 98 sector level of detail. The best source of data might yield regional numbers on fuel use for only four supersectors (s=1,4). As illustrated below for manufacturing, each must be disaggregated to the level of detail desired in this research.

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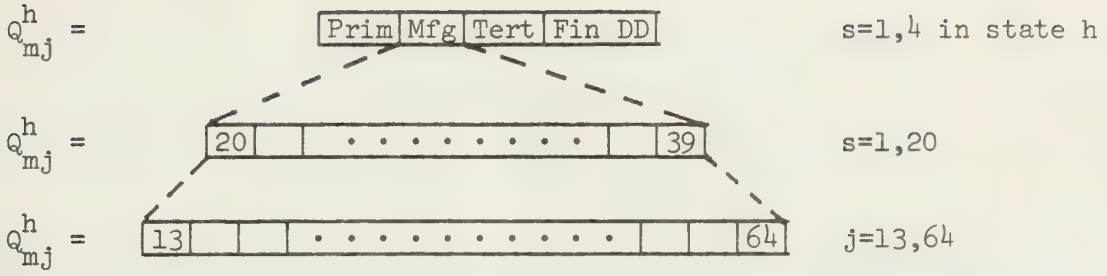
* Refers to both fossil fuels and electricity, even though electricity is a secondary form of energy, rather than a fuel.

** Definitions of symbols and abbreviations are compiled in Appendix A.



The remainder of Section 2 identifies the best available data on the use of each energy form within each major sector grouping and develops the procedures necessary in arriving at the 98 sector level of detail.

2.1 Manufacturing

No regional manufacturing energy-use data are available in any sector detail for 1967. The 1967 Census of Manufactures provides only national data. However, the 1963 and 1972 Census provide fairly complete energy-use data at the state level for two-digit SIC's 20 through 39, in 1962 and 1971 [35, Table 6][37, Table 4]. The best available alternative is to calculate the regional changes in energy use from 1962 to 1971, using corresponding changes at the national level from 1962 to 1971 and from 1962 to 1967 as controls in estimating the 1967 regional numbers.* The two-digit SIC numbers are disaggregated to the 54 manufacturing sectors in this study by applying a combined weight of $ output, times a national Btu per $ output coefficient. Appendix C lists the I/O Sectors contained within each two-digit SIC.

2.1.1 Gas**

The regional data for 1962 and 1971 are not complete. Four CASEs exist:***

---

* See Section 4 for review of the other alternatives considered.

** Natural, manufactured, still. Final numbers exclude blast furnace and coke-oven gas.

*** The procedure described for gas holds true for the other four energy forms, with exceptions as noted in later discussion. The equations in this section are written in a more general format to accommodate this fact.

CASE 1: 1962 and 1971 number given.
Q^h_{ms} (62), Q^h_{ms} (71)

CASE 2: 1962 only given.
Q^h_{ms} (62)

CASE 3: 1971 only given.
Q^h_{ms} (71)

CASE 4: Both end-points missing.

Where: Q^h_{ms} (62,71) = physical units (tons, barrels, cubic feet) of fuel m directly required by supersector s (two-digit SIC's) in state h in 1962(71)[35, Table 6] [37, Table 4].

The four CASEs vary in their level of desirability. Fortunately, 91.0 percent of the gas used by manufacturing falls in CASE 1. An additional 6.5 percent is estimated in CASEs 2 and 3. This leaves only 2.5 percent in CASE 4. Many elements in this subset prove to be zero, as indicated when $X^h_s = 0$. Appendix D contains the percentage share of each CASE for each two-digit SIC. In comparing this with Q_{ms} (67) for each energy form, note that the sectors which are large users of gas are accounted for almost entirely within CASE 1.

The CASE 1 subset of 1967 regional numbers is derived in Equation 2.1-1a:

$$2.1\text{-}1a.\quad Q^h_{ms}(67) = FRAC_{ms} \times [Q^h_{ms}(71) - Q^h_{ms}(62)] + Q^h_{ms}(62)$$

$FRAC_{ms}$ is the change in Q_{ms}--the use of fuel m by sector s at the national level [37, Table 2]--from 1962 to 1967, as a proportion of the change in use from 1962 to 1971.* Equation 2.1-1b illustrates this:

---

* See Appendix E for $FRAC_{ms}$ values.

$$2.1\text{-}1b.\quad FRAC_{ms} = \frac{Q_{ms}(67) - Q_{ms}(62)}{Q_{ms}(71) - Q_{ms}(62)}$$

The assumption underlying the relationship established in Equation 2.1-1a is that the proportion of the 1962 to 1971 change which occurs from 1962 to 1967 is uniform across space in sector s and is identical to the national ratio of change over the same time periods.

Note, however, that this approach does provide for regional shifts in fuel use. For example, the absolute value of Q^h_{ms} for a given s may triple for state "A" and double for state "B". The national share of state "A" in sector s increases relative to that of state "B" when Equation 2.1-1a is implemented.

CASE 2 and CASE 3 require a different approach. Since only one end-point is present, it is assumed that $Q^h_{ms}(67)$ is a function of FRA_{ms}--the rate of change of the residual of Q_{ms} (Q_{ms} with all CASE 1 ΣQ^h_{ms} subtracted out). In Equation 2.1-2a $Q^h_{ms}(62)$ is extrapolated forward in time:

$$2.1\text{-}2a.\quad Q^h_{ms}(67) = FRA62_{ms} \times Q^h_{ms}(62)$$

$FRA62_{ms}$ is defined in Equation 2.1-2b:

$$2.1\text{-}2b.\quad FRA62_{ms} = \frac{Q_{ms}(67) - \sum_{h \in CASE\ 1} Q^h_{ms}(67)}{Q_{ms}(62) - \sum_{h \in CASE\ 1} Q^h_{ms}(62)}$$

$Q^h_{ms}(71)$ is trended back to 1967 in Equation 2.1-3a:

$$2.1\text{-}3a.\quad Q^h_{ms}(67) = FRA71_{ms} \times Q^h_{ms}(71)$$

Equation 2.1-3b establishes the rate of change for s in CASE 3:

$$2.1\text{-}3b.\quad FRA71_{ms} = \frac{Q_{ms}(67) - \sum_{h\varepsilon CASE\ 1} Q^{h}_{ms}(67)}{Q_{ms}(71) - \sum_{h\varepsilon CASE\ 1} Q^{h}_{ms}(71)}$$

No regional shifts are possible within either the CASE 2 or the CASE 3 group. However, CASE 2 and CASE 3 entries do alter their share of the national total when compared with CASE 1 entries. Appendix F provides all FRA_{ms}'s.

The residual of $Q_{ms}(67)$--the total with all CASE 1, 2, and 3 $\sum_{h} Q^{h}_{ms}(67)$ subtracted out--is allocated to all elements in CASE 4 through Equation 2.1-4a:*

$$2.1\text{-}4a.\quad Q^{h}_{ms}(67) = \left[\frac{XBT^{h}_{ms}}{\sum_{s\varepsilon CASE\ 4} XBT^{h}_{ms}}\right] x\ [Q_{ms}(67) - \sum_{h\varepsilon CASE\ 1,3} Q^{h}_{ms}(67)]$$

XBT^{h}_{ms} (Equation 2.1-4b) is a value combining X^{h}_{s}--the 1967 dollars output in sector s, state h (CASE 4)-- with BT_{ms}--the national average Btu's of fuel m per dollar output used by sector s in 1967.** The former is an indicator of the magnitude of sector s in state h. The

---

* No CASE 4 allocations are made:

a. To a state for which the total fuel m use by manufacturing in 1962 and 1971 equals zero.

b. Where Q^{h}_{ms} summed over CASEs 1 through 3 exceeds 110% of an estimated 1967 state total (derived through interpolation).

The XBT^{h}_{ms} values for entries fitting within one of the above conditions are excluded from Equation 2.1-4a.

** X^{h}_{s} is a summation of the X^{h}_{j}'s within each two-digit SIC. These numbers are found in [14]. BT_{ms} is a summation of the BT_{j}'s for fuel m in each two-digit SIC. These numbers are found in [13].

latter is a measure of the intensity of fuel m use in sector s. The product represents the Btu's of fuel m required by sector s in state h in 1967:

$$2.1\text{-}4b. \quad XBT^{h}_{ms} = X^{h}_{s} \times BT_{ms}$$

The final operation in dealing with the 20 sector level of aggregation is to convert the physical units to Btu's in Equation 2.1-5a, so that the five energy forms are readily comparable. Equation 2.1-5b converts the national totals:

$$2.1\text{-}5a. \quad EN^{h}_{ms} = B^{h}_{m} \times Q^{h}_{ms}(67)$$

$$2.1\text{-}5n. \quad EN_{ms} = B_{m} \times Q_{ms}(67)$$

Where: EN^{h}_{ms} = Btu's of fuel m required directly by sector s in state h in 1967.

EN_{ms} = Btu's of fuel m required directly by sector s in the U. S. in 1967.

B^{h}_{m} = Average Btu's per physical unit of fuel m in state h in 1967 [2].*

B_{m} = Average Btu's per physical unit of fuel m in the U.S. in 1967.

Equation 2.1-6 adjusts the summation of the regional number to the national total:

$$2.1\text{-}6. \quad EM^{h}_{ms} = \left[\frac{EN^{h}_{ms}}{\sum_{h} EN^{h}_{ms}} \right] \times EN_{ms}$$

---

* Appendix G contains all Btu values used in this study.

Where: EM^h_{ms} = Btu's of fuel m required directly by sector s in state h in 1967 (subject to national control EN_{ms}).

Equations 2.1-7a and 2.1-7b implement the national controls, aggregated to the two-digit SIC level:

$$2.1\text{-}7a.\quad E^h_{ms} = \left[\frac{EM^h_{ms}}{\sum_h EM^h_{ms}}\right] \times E_{ms}$$

$$2.1\text{-}7b.\quad E_{ms} = \sum_{j \varepsilon s} E_{mj}$$

Where: E_{mj} = Btu's of fuel m required directly by sector j in the U.S. in 1967 [13].

E_{ms} = Btu's of fuel m required directly by sector s (jεs) in the U.S. in 1967.

E^h_{ms} = Btu's of fuel m required directly by sector s in state h in 1967 (controlled to E_{ms}).

The final operation disaggregates the 20 two-digit SIC's to the set of 54 manufacturing sectors. Equation 2.1-8a involves a weighting principle similar to that described in Equation 2.1-4b:

$$2.1\text{-}8a.\quad EM^h_{mj} = \left[\frac{XBT^h_{mj}}{\sum_{j \varepsilon s} XBT^h_{mj}}\right] \times EM^h_{ms}$$

Equation 2.1-8b provides for the final national control of E_{mj}:

$$2.1\text{-}8b.\quad E^h_{mj} = \left[\frac{EM^h_{mj}}{\sum_h EM^h_{mj}}\right] \times E_{mj}$$

Where: $XBT^{h}_{mj} = X^{h}_{j} \times BT^{h}_{mj}$ (The definitions given in Equation 2.1-4 hold true here.)

EM^{h}_{mj} = Btu's of fuel m required directly by sector j in state h in 1967.

Table 5 from the 1967 Fuels and Electric Energy Consumed, "Fuels Produced and Consumed by the Petroleum Refining (SIC 2911) and Blast Furnaces, Steel Works, and Rolling Mills (SIC 331) Industries" contains 1967 national data and 1962 regional data for blast furnace and coke oven gas (SIC 331--5,616,502 million cubic feet) and still gas (SIC 2911--714,568 million cubic feet)[36]. The 1962 state shares of still gas are used in allocating the 1967 totals to the state level in I/O 31.01. The blast furance and coke oven gas are not added in, since these Btu values are embodied within the coal purchased by SIC 331.

Table 6--"Selected Purchased Fuels Converted to Other Fuel Types or Consumed as Raw Materials, for Selected Industries"--contains data in addition to the fuels used for heat and power [36]. Two major users of natural gas are evident:

SIC 281	-	Basic Chemicals	502,753 million cubic feet
SIC 2895	-	Carbon Black	104,366 million cubic feet

The latter is defined as "crude" natural gas in the national study [13] and goes from the crude sector (Section 2.1.5) to I/O Sector 27. Over 80% of SIC 2895 is concentrated in Texas and Louisiana. Since no regional fuel numbers are provided, the national totals are allocated to the states by each state's share of dollar "value of shipments" [34] in that SIC. This measure is very similar to the dollars output measure (X^{h}_{j}). The regional fuel use estimates are converted to Btu's and are added to the appropriate E^{h}_{mj}.

2.1.2 Coal*

The procedures and references used in calculating E^{h}_{mj} for coal are similar to those described in Section 2.1.1. The regional Btu values for coal used by manufacturing are assumed to be identical to the regional Btu values of coal used by the electric utilities [23].** SIC 33--Primary Metal Industries--is the one exception. Over 90 percent of the coal used in SIC 33 is coking coal (coke plants included in this SIC). State of origin average Btu values are available for coking coal shipped in 1969 [20]. These numbers are assumed to represent the 1967 values, as the attributes of coking coal are fairly constant [28]. The Btu values are carried over in the origin-destination matrix in the coke chapter of the Minerals Yearbook [45], and weighted Btu averages are calculated in the states where coking coal is consumed.

Ninety-two percent of the coal used by manufacturing falls into CASE 1. An additional seven percent is estimated in CASEs 2 and 3, leaving only one percent in CASE 4 (see Appendix D for two-digit SIC breakdown).

There are two other major users of coal [36]. One converts to other fuel types:

SIC 331 - Blast Furnaces, etc. 91,867 thousand tons

The other consumes coal as a raw material:

SIC 281 - Basic Chemicals 1,073 thousand tons

These national totals are allocated to each state in the same manner as described at the end of Section 2.1.1.

---

* Bituminous coal, anthracite, and lignite.

** The Bureau of Mines has no regional Btu data for coal used in manufacturing. Mr. Leonard Westerstrom suggested that the Btu values for coal used by the electric utility sector would be representative of regional variations in manufacturing coal use [48].

The coke and breeze purchased by manufacturing go almost entirely to SIC 33. However, these data cannot be included in the total, since to do so would result in double-counting the Btu content of the coal purchased by SIC 33 (coke plants included) for the purpose of producing coke. Purchases of coke by SIC 33 would be from other establishments within SIC 33. SIC 33 used 61,105 thousand tons of coke and breeze in 1967 [36].

2.1.3 Electricity*

Unfortunately, no regional data on use of electricity by manufacturing are given in the 1971 Fuels and Electric Energy Consumed [37].** However, the 1966 Annual Survey of Manufactures does provide a regional breakdown [32]. Therefore, $Q^h_{ms}(66)$ and $Q_{ms}(66)$ are used in place of $Q^h_{ms}(71)$ and $Q_{ms}(71)$ in the procedures described in Section 2.1.1, extrapolating to 1967.

The Btu definition of a kilowatt-hour (kwh) of 3412 Btu/kwh is used [13]. This number does not vary regionally.

Fifty percent of the electricity used by manufacturing falls in CASE 1. An additional 45 percent is estimated in CASEs 2 and 3, leaving only five percent in CASE 4 (see Appendix D). CASE 1 is low due to the incompleteness of the sector breakdown at the state level for 1966. The cost of retrieving more complete data would be prohibitive [21].

---

* Purchased only. Does not include "generated less sold" within the manufacturing sectors. To include it would mean double counting of energy used within the sectors, since fuels purchased (or self-produced, as in SIC 29) by the sectors are used in generating this electricity. At this time it is not possible to determine which fuel is used in generating that electricity. To give an idea of the volume of electricity generated and consumed within manufacturing--including the "generated less sold" category in electricity would increase manufacturing use of this energy form by 18% (or 78,356 million kwh) in 1967. The paper, chemical, and primary metal industries account for practically all of this.

** The state-level data are being compiled for publication at the two-digit SIC level of detail. As of this writing, the results are still awaiting release [9].

2.1.4 Refined Petroleum Products (RPP's)

In most research, refined petroleum products (RPP's) have been grouped into a single category. However, the RPP's used for heat and power (primarily the fuel oils) are substitutable, both within the range of RPP's and for other fuels. The non-fuel petroleum products in general face little competition, except in the dimension of competition with other petroleum products as a proportion of the refinery product throughput mix.

Distillate fuel oils (DFO) and residual fuel oils (RFO) are competitors with difference price, Btu, and pollution attributes.* Separate studies are made of DFO and of RFO at the two-digit SIC level. Then these two fuels are combined and used in regionally allocating the 1967 RPP's out to the 98 sector level of detail.

$Q^h_{ms}(71)$ is given for fuel m = DFO and for fuel m = RFO [37]; but only a combined figure is available for 1962: $QQ^h_{ms}(62)$ = DFO + RFO [35].** Prior to interpolation, it is necessary to calculate $QQ^h_{ms}(71)$, $QQ_{ms}(71)$, and $QQ_{ms}(67)$. These values are used as inputs in Equations 2.1-1 through 2.1-4 to derive $QQ^h_{ms}(67)$.

Eighty-six percent of the fuel oil used by manufacturing falls in CASE 1. An additional 12 percent is estimated in CASE's 2 and 3, leaving only two percent in CASE 4 (see Appendix D).

The resulting 1967 regional fuel oil estimates are split into DFO and RFO ($QQ \rightarrow Q + Q$) by assuming that the fuel mix of these two in state h and sector s in 1967 is identical to that in 1971. Changes in the national fuel mix within each two-digit SIC from 1967 to 1971 are accounted for when meeting the control for both DFO and RFO:

---

* A range of fuel quality and use exists within each.

** The 1962 fuel oils total cannot be split into DFO and RFO; the backup material has been destroyed [21].

$$2.1\text{-}9. \quad \sum_h Q^h_{ms}(67) = Q_{ms}(67)$$

The adjusted $Q^h_{ms}(67)$ is the input to Equations 2.1-5 and 2.1-6. The constants used in converting the physical units to Btu's (Equation 2.1-5a) are 5,825,000 Btu/bbl for DFO and 6,287,000 Btu/bbl for RFO [13]. Appendix H contains EM^h_{ms} for DFO and RFO (Equation 2.1-6).

Regional data on other petroleum fuels in manufacturing sector detail are not available. E^h_{mj} is for m = RPP's. EM^h_{ms}(DFO) + EM^h_{ms} (RFO) is calculated and used as a weight in regionally allocating E_{ms} for m = RPP's in Equation 2.1-7a.

2.1.5 Crude Oil and Gas

State allocation of the use of crude gas by I/O Sector 27 is discussed at the end of Section 2.1.1. SIC 2911 (Petroleum Refining) use of crude oil includes both refinery throughput and that which may be used for heat and power within the refinery. As it is assumed that regional Btu values are equal to the national average of 5,800,000 Btu/bbl [13], the physical units can be used directly in regionally allocating the national control:

$$2.1\text{-}10. \quad E^h_{mj} = \left[\frac{Q^h_{ms}}{\sum_h Q^h_{ms}} \right] \times E_{mj} \qquad \text{Where s,j = petroleum refining}$$

Most crude oil passes through the refining sector, undergoing a transformation. The crude actually consumed in the refining sector is included in the fuel oils portion of RPP's.

With the exception of SIC 2895 (see end of Section 2.1.1), no natural gas is used by manufacturing in its "crude" form (i.e., by definition, natural gas passes through the gas utilities sector prior to use--whether it undergoes any physical changes or not).

2.1.6 Subsectors of Petroleum Refining

I/O Sector 31 is disaggregated primarily to isolate the energy use of the refinery. State data on natural gas used in refining are taken from the Minerals Yearbook [45]. The physical units are converted to Btu's (regional values) and are used as weights in allocating the national total. 1967 state data on "sales" of DFO, RFO, and crude for oil company use are available in Petroleum Facts and Figures [4]. These data are converted to Btu's, combined, and employed in allocating the national control to the state level. Section 2.1.5 covers the allocation of crude oil in the refining sector. No regional data are available on the use of electricity or coal by this sector. Thus, it is assumed that the state distribution of each of these fuels is identical to the pattern of use of RPP's (see Section 2.1.7 for additional information on coal).

No regional fuel use data are available for I/O Sectors 31.02 and 31.03. In addition, dollar output values (X_j^h) are not given for this level of detail [14]. Therefore, a value-added measure [34] is used in the state allocation of each energy form.

2.1.7 Exclusion of States in Allocation of Gas and Coal

As has been discussed in previous sections, fuel allocation sometimes must occur by a dollars output (X_j^h) weighting. This procedure will be repeated in the allocation scheme for some other sectors. In an attempt to improve the procedure, an effort is made to take into account regional variations in the use of coal and gas (electricity and RPP's are fairly ubiquitous in their use). From Gas Facts [2], it is evident that no natural gas was used in Hawaii in 1967 except by the residential sector. Therefore, Hawaii is excluded (zero values) from the allocation scheme for natural gas.

In the case of coal, this adjustment in regional variations becomes much more important. According to the Minerals Yearbook [45], little or no coal was used in 1967 in the following states:

Connecticut	Nebraska
Massachusetts	Arkansas
Rhode Island	Louisiana

Vermont	Oklahoma
Maine	Texas
New Hampshire	New Mexico
North Dakota	Wyoming
South Dakota	California
Kansas	Hawaii

These states are excluded in the allocation scheme for coal, except when direct data indicate nonzero values.

2.2 Agriculture, Forestry, and Fisheries

The major data source for agriculture is the Census of Agriculture for 1969 [42]. This source provides 1964 and 1969 data by state for various petroleum products for I/O Sectors 1 and 2 combined. The only 1967 regional data are on sales of kerosine for tractor fuel in Petroleum Facts and Figures. The Census data are in dollars, while the API numbers are in physical units. Average prices paid by farmers in each state for gasoline from tank trucks are published in Agricultural Prices [40].

National average prices are used in converting the 1964 and 1969 data to physical units. By straight line interpolation (time dependent), 1967 state estimates are achieved. The regional gasoline prices are assumed to represent the degree of spatial variation of prices paid by farmers for all petroleum products. The RPP's (including kerosine) are converted to Btu's, combined, and used in allocating the national control to the state level. Disaggregation from s to j (E^h_{mj}) is accomplished by implementing Equation 2.1-8a.

Estimates are available on the average monthly electricity use per farm for each state in 1967 [40]. This includes on-farm residential use. Agriculture (I/O Sectors 1 and 2) poses a rather unique problem in the U.S. economy, since the residence, a part of the Final Demand Sector, is combined with the farm operation. By definition, the data on RPP's exclude non-farm use. However, the electricity data must be disaggregated to compensate for this. By subtracting average residential use of electricity from the total [12], an approximation of the state average use of electricity for

farm business is achieved. The number of class I through V farms in each state in 1964 and 1969 [42] is interpolated to get a 1967 estimate.* Then the results are multiplied by the annualized average electricity use for farm business to get state totals for electricity use by agriculture. The quantities are converted to Btu's, and Equation 2.1-8a is used to disaggregate from s to j (E^h_{mj}).

No complete regional data are available for coal or gas used in farming operations. Equation 2.2-4 is the procedure used in allocating the national control to states:

$$2.2\text{-}4. \quad E^h_{mj} = \left[\frac{X^h_j \times B^h_m}{\sum_h (X^h_j \times B^h_m)} \right] \times E_{mj}$$

No regional data are available for I/O Sectors 3 and 4. No method could be constructed to account for regional variations in fuel mix. Equation 2.2-5 is used in allocating the national control.

$$2.2\text{-}5. \quad E^h_{mj} = \left[\frac{X^h_j}{\sum_h X^h_J} \right] \times E_{mj}$$

2.3 Mining

Most regional energy data for the mining sectors are found in the 1967 Census of Mineral Industries [38]. The energy forms included are electricity, coal, fuel oils, gas, and gasoline. In

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* Practically all energy use in remaining small operations would be for residential purposes.

addition, data are provided for three categories of use of crude oil and gas by I/O Sector 8:

a. Crude oil "used in lease operations."
b. Gas "used in lease operations."
c. Gas "vented to air, burned in flares and other losses."

About 85 percent of this total is accounted for by direct state data. Although not used in this report, the Minerals Yearbook [45] provides state level data on natural gas field use--a data set intended to encompass categories "b" and "c" above.

As the data are incomplete at the state level, a two stage process is used. Stage 1 for data which are given:*

$$2.3\text{-}1. \quad E^h_{mj} = \left[\frac{Q^h_{mj} \times B^h_m}{Q_{mj} \times B_m} \right] \times E_{mj}$$

The residual of E_{mj} from this procedure is allocated to the remaining states in Stage 2:

S1 = Stage 1
S2 = Stage 2

$$2.3\text{-}2. \quad E^h_{mj} = \left[\frac{X^h_j \times B^h_m}{\sum_h (X^h_j \times B^h_m)} \right]_{h \varepsilon S2} \times \left(E_{mj} - \sum_{h \varepsilon S1} E^h_{mj} \right)$$

Almost all energy use in I/O Sectors 7, 8, and 9 is allocated regionally in Stage 1. Energy use in I/O Sectors 5, 6, and 10--all minor energy users--is allocated regionally for the most part in Stage 2.

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* The Btu values are excluded for electricity. For RPP's the fuel oils and gasoline are converted to their respective Btu values and then are combined and used in allocating the national control. This same procedure is employed when combining the three categories of crude use.

2.4 Construction

No regional data are provided at present for the construction industries.* Therefore, Equation 2.2-4 is used in obtaining regional estimates.

2.5 Transportation**

Transportation is the movement of goods and people from place to place in overcoming the friction of distance intervening between the supply of and the demand for goods and services. Unlike use in a manufacturing establishment or other stationary facility, energy use occurs in mobile units. Thus, it is difficult to ascertain the actual location of fuel use. For this report the logistics approach is taken. Fuel consumption is defined as occurring at the location of the fueling point--service station, air terminal, etc.***

Incomplete regional data are available for the transportation subsectors (I/O Sectors 65.01 through 65.07). Most frequently accessible are data on use of one or more petroleum products by each mode of transport. These are used in the regional allocation of the national controls for the RPP's group. The remaining RPP's are assumed to vary regionally in the proportions indicated by the partial data. X_j^h is available only for I/O Sector 65 and not the subsectors. Therefore, national totals only are given for the energy forms and subsectors for which no reasonable allocation procedure could be achieved. A state disaggregation of I/O Sector 65 was

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* SIC 138--Oil and Gas Well Drilling--is the exception [22]. This activity is included with I/O Sector 11. Since there is no feasible way of segregating SIC 138 from I/O Sector 11, separate regional estimates are not attempted.

** Includes warehousing.

*** It must be recognized that this may have little to do with the source of demand for transportation. For example, trucking purchases of diesel in Wyoming are primarily the result of through traffic between the West Coast and the East.

attempted using Equation 2.2-5. However, when these numbers were compared to the partial regional data given for the transportation subsectors, it became apparent that such estimates could be very misleading. Therefore, no state breakdown on energy use by the entire transportation sector is given.

1967 state data on sales of DFO and RFO [4] for use by railroads (65.01) are converted to Btu's, added, and used as weights in allocating the national control for RPP's. State sales of electricity to railroads and railways introduce a definitional problem. Commuter rail service is included in Sector 65.02, and this mode is a major user of electricity. The EEI data source [12] groups sales of electricity to all types of rail service in one category. In examining the detailed I/O definition of Sector 65.02, it becomes evident that electrified rail service constitutes most of the demand for electricity in this sector. Therefore, Sectors 65.01 and 65.02 are combined for allocation of electricity to the state level.

The passenger and motor freight transportation subsectors (65.02 and 65.03) must be combined for RPP's, as the only acceptable data are sales of diesel oil for "on highway use" in 1968 [4].* It is assumed that most vehicles within these two categories (bus, truck) use diesel engines. Passenger autos and many of the pickup and panel trucks which are gasoline powered are included in the final demand sector. The state shares of diesel oil are used in allocating the 1967 national control for RPP's.

Three types of fuel are converted to Btu's, combined, and used as a regional weight in allocating use of RPP's by water transportation (65.04) to the state level [4]:

a. Sales of DFO for use by vessels.

b. Sales of RFO for use by vessels.

c. U.S. bunkering of vessels engaged in foreign trade, by Customs Districts.

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* In 1967 diesel type fuel oil not reported separately. No data on highway use are given 1967.

Regional data on use of jet fuel and of aviation gasoline in air transportation (65.05) are available for PAD Districts I through V for 1967 [4]. State data are not available [7,8]. The military sector is transferred to final demand. Data for 1972 only are available on jet fuel consumption in each state [1][30].* These are used as weights in allocating each of the PAD District totals.** The national control for RPP's is disaggregated to the state level using these state estimates.

A total pipeline capacity per state figure for 1967 is used as the regional weighting for oil, gas, and electricity in the pipeline transportation sector (65.06)[4].

No regional allocation method is recognized as feasible for either transportation services (65.07) or the remaining energy forms in the other sectors (65.01 through 65.06). The national control for RPP's used by Sector 65.07 is zero.

2.6 Communications

No regional energy use data are available for the communications sectors. Equations 2.2-4 and 2.2-5 are used in estimating state totals.

2.7 Utilities

This group includes electric utilities, gas utilities, and water and sanitary services. Very accurate data are available on the electric utilities sector's use of coal, gas, and oil (most oil used is residual; establishment data yield quantities of distillates used)[24].*** State average Btu values for each of the three fuels are provided in the same source (See Appendix G). Equation 2.3-1

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* Domestic plus bondable turbine fuel.

** Air Transport Association members. Does not include general aviation.

*** Includes government-owned electric utilities--TVA, etc.

is used in calculating E^h_{mj}. Use of electricity by the electric utilities in each state is assumed to be proportional to the quantity of electricity generated [13, Table 13s].

State data on natural gas used as pipeline fuel are available [45].* It is assumed that energy use by the gas utilities sector is proportionate to Q^h_{gs}--the quantity of gas used by pipelines:

$$2.7\text{-}1. \quad E^h_{mj} = \left[\frac{Q^h_{gs} \times B^h_m}{\sum_h Q^h_{gs} \times B^h_m} \right] \times E_{mj}$$

All natural gas (with the exception of use in I/O Sectors 8 and 27) is defined as passing through the gas utilities sector prior to use. This gas in its "crude" form (crude oil and gas) is allocated to gas utilities at the state level based on the quantity of consumption in each state [45, Table 89] (an allocation problem similar to that of transportation).

No regional energy data are available for the water and sanitary services sector. In addition, X^h_j is available only for the utilities group and not for the three subsectors. Thus, a state population (POP^h) weighting is employed in deriving state estimates of energy use [49, Table 12].

$$2.7\text{-}2. \quad E^h_{mj} = \left[\frac{POP^h}{\sum_h POP^h} \right] \times E_{mj}$$

2.8 Services

No regional data are available on energy use by the tertiary

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* The gas utilities include gas pipelines. It is assumed that these state totals represent proportionate shares of energy used by gas pipelines [41].

sectors.* Equations 2.2-4 and 2.2-5 are used in allocating the national controls to the states for I/O Sectors 69 through 73 and 74 through 79. Zero energy use values are given for the national controls for Sectors 74 and 80 through 87, with one exception. The national value for use of RPP's by I/O Sector 83--Scrap and Used Goods--is 12,201 billion Btu's. However, no state dollar value estimates could be found for this sector. Thus, Sectors 74 and 80 through 87 are omitted from the energy data sets in this report.

2.9 Domestic Final Demand

The final demand sector is more complex than it would first appear. This sector includes:

I. Personal Consumption Expenditures (PCE).
   - A. Residential use--owner and rental homes and apartments.
   - B. Private transportation--passenger auto, pickup and panel trucks, recreational vehicles, and private vehicles.

II. Government Use.
   - A. Military--air, land, and water transportation, plus heat and power at military bases.
   - B. Heating and lighting of government office space (and nonprofit institutions, such as state universities).
   - C. Street and highway lighting.

III. Gross Exports.

IV. Net Inventory Change.

V. Gross Private Capital Formation (energy = 0).

Given this wide range of diversity within the final demand sector, no simple approach to determining energy use at the state level is possible. Data are not available for all types of energy

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* State data are published in some instances for a "commercial" supersector. However, the detailed contents prove difficult to define. In addition, apartment complexes are usually included, even though they serve a residential (final demand) function.

use by the final demand subsectors. It must be emphasized that the total "Domestic Final Demand" sector encompasses only those end-uses which are dealt with specifically in this discussion. National controls normally are taken from the same reference as the state data. Gross exports and net inventory change are not dealt with in this report.

State data on 1967 residential use of natural gas are taken from Gas Facts and are converted to Btu's [2, Table 89]. Retail coal sales are assumed to be for residential use [45, Table 60].* Btu conversion factors are assumed to be identical to those for the electric utilities [24]. Data published by the Edison Electric Institute on sales of electricity to the residential sector are used in this report [10, Table 22s]. It is recognized that this is an incomplete measure, since electricity sales to apartment complexes are included in the small commercial and industry light and power category. However, there is no acceptable method of extracting this form of residential use at the state level. The residual state data defined as on-farm residential use in Section 2.2 are included in the residential sector. Use of electricity for street and highway lighting are included as a part of final demand [10, Table 22s].

Several petroleum fuels are used in the residential sector. Distillate heating oil, Grade Number 1, is a light, kerosine-type oil used primarily for noncentral space heating, water heating, and cooking.** Distillate heating oil, Grade Number 2, is a medium-light oil used primarily for domestic central heating. Data are given also on kerosine used for heating. This fuel is very similar to the Grade Number 2 heating oil. Distillate heating oil, Grade Number 4, is a heavy distillate used primarily for heavy heating equipment in commercial and larger residential buildings. Residual heating oils, Grades 5 and 6 are used for heating large industrial

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* This results in the exclusion of larger-volume sales of coal for central heating of apartment complexes. This should not be too large a figure.

** All RPP's data taken from the American Petroleum Institute source [4].

and commercial buildings. The 1967 national totals for these fuels are:

Distillate heating oils, Grade 1	-	62,260 thousand barrels
Distillate heating oils, Grade 2	-	418,014 thousand barrels
Kerosine	-	68,484 thousand barrels
Distillate heating oils, Grade 4	-	20,752 thousand barrels
Distillate heating oils, Grade 5	-	41,653 thousand barrels
Distillate heating oils, Grade 6	-	134,337 thousand barrels

Some of Grades 1 and 2 are used by small commercial establishments. A portion of Grades 4, 5 and 6 is used to heat large apartment complexes. It is not possible to determine how much in any of these categories. Therefore, only Grades 1 and 2 are counted in the residential total. The portion of these grades consumed by the commercial sector should serve to cancel out the volume of heavy oils used by apartment complexes. A small amount of kerosine is used, particularly in the southern states, for home heating and lighting.

Motor gasoline consumption and automotive oil sales by state for 1967 are assumed to represent fuel use by the private transportation sector (except air). Distillate and residual fuel oil sales to the military are all that are available at the state level (no gasoline sales data).

Data for the five PAD districts are available for general aviation and for military use of aviation gasoline and of jet fuel [4]. These are not included in this report. No separate data are accessible for govenment and institutional energy uses.

The total final demand use for each energy form is a summation of the end uses (converted to Btu's) described in this section. In review, they are:

I. Gas - residential use.

II. Coal - retail sales.

III. Electricity - residential use.
- street and highway lighting.

IV. RPP's - gasoline.
- DFO, Grade 1.
- DFO, Grade 2.
- DFO, used by military.
- RFO, used by military.
- kerosine used as range oil.

The national totals for final demand shown in the energy tables in this report represent the total of the calculated state final demands. The following is a comparison between the national final demand totals [13] and those given in this report (in billion Btu's):*

	Coal	RPP's	Electricity	Gas
National Control:	1,009,000	12,110,000	1,443,000	5,063,000
Totals in this Report:	489,924	13,342,663	1,232,729	4,362,260

It appears that a reasonably good coverage of final demand energy use has been achieved in this report.

2.10 State Totals

The state totals are calculated by summing the sector detail energy use in each state. When using the final tables in this report, three features must be emphasized. The subsectors within I/O Sectors 31, 65, and 68 are added to the state total. The state totals do not include a complete measurement either of transportation (those subsectors for which state data are not calculated) or of final demand (see Section 2.9). The published total of all energy use in the U.S. for each energy form is greater than a summation of the state totals, due to the missing state-level data in the transportation sector.

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* Both sets exclude exports and inventory changes. Note that the calculated total for RPP's slightly exceeds the national control. This probably is caused by definitional vagaries in the subcategories within the calculated total. Therefore, the final demand data for RPP's are adjusted to the national control.

3. RESULTS

This section contains summary tables which present direct energy use data, as calculated through application of the methodology described in Section 2. The tables shown are:

Table 3A - Gas

Table 3B - Coal

Table 3C - Electricity

Table 3D - Refined Petroleum Products

Table 3E - Distillate Fuel Oil

Table 3F - Residual Fuel Oil

Table 3G - Crude Oil and Gas

Tables 3E and 3F are included to provide an additional dimension to the RPP's manufacturing group. Data for these two tables are given for each two-digit SIC group at the state level. The remaining tables provide data at the 98 sector level of detail for each of nine Census regions.

The complete data sets (state level) for each of the five major energy forms are located in Appendices H through L. Appendix M reviews the Census region definitions and defines the state labels used in other appendices.

Note that the common energy equivalent used in each table and appendix is one billion Btu's. Very small energy use values at the state level could show up as zero in this report. However, this may eliminate some instances in which the small energy value is calculated as part of a residual (CASE 4 allocations in manufacturing), improving the accuracy of the data matrices, with the exception of electricity use. When summing columns, include the subsectors only for I/O Sectors 31, 65, and 68. I/O Sectors 65.01 and 65.02 are combined for electricity, and 65.02 and 65.03 are combined for RPP's. Complete measures are not given for transportation and final demand. Refer back to the appropriate passages in Section 2 if questions about definition or procedure should arise.

TABLES 3A - 3G following

TABLE 3A - GAS

(10**9 BTU). ONE UNIT IN THIS TABLE APPROXIMATES 969000 CU. FT. OF GAS

INDUSTRY NUMBER AND TITLE	NEW ENGLAND	MIDDLE ATLANTIC	EAST NORTH CENTRAL	WEST NORTH CENTRAL	SOUTH ATLANTIC	EAST SOUTH CENTRAL	WEST SOUTH CENTRAL	MOUNTAIN	PACIFIC	UNITED STATES
01-LIVESTOCK & LIVESTOCK PRODS...	251.	783.	2479.	4254.	1316.	1025.	1499.	1011.	1062.	13680.
02-OTHER AGRICULTURAL PRODS.....	129.	423.	2493.	2936.	1537.	713.	1425.	751.	1862.	12270.
03-FORESTRY & FISHERY PRODS.....	41.	19.	14.	6.	87.	38.	71.	35.	215.	526.
04-AG,FORESTRY, & FISHERY SVCES..	42.	78.	200.	296.	405.	260.	441.	118.	264.	2104.
05-IRON & FERRO ORES MINING.....	0.	2260.	6368.	20236.	556.	878.	137.	5375.	189.	36000.
06-NONFERROUS METAL ORES MINING..	0.	796.	1735.	913.	357.	580.	623.	19460.	1542.	26005.
07-COAL MINING.....	0.	788.	101.	30.	466.	194.	10.	84.	0.	1672.
08-CRUDE PETROLEUM & NATURAL GAS.	0.	2751.	5818.	13050.	4010.	6618.	622020.	65009.	38825.	758100.
09-STONE & CLAY MINING.....	1373.	6197.	8556.	4321.	8321.	2781.	3084.	1294.	4653.	40580.
10-CHEM & FERTILIZER MINERAL MNG.	1612.	1205.	3484.	3157.	18442.	5147.	13688.	27823.	20841.	95400.
11-NEW CONSTRUCTION.....	930.	2446.	3363.	1166.	2390.	843.	1811.	667.	1988.	15605.
12-MAINT & REPAIR CONSTRUCTION...	125.	325.	414.	224.	304.	122.	175.	104.	311.	2104.
13-ORDNANCE & ACCESSORIES.....	342.	769.	2101.	3136.	501.	437.	1957.	378.	4757.	14377.
14-FOOD & KINDRED PRODUCTS.....	4211.	35646.	79613.	92922.	27452.	24750.	62869.	31251.	91808.	450520.
15-TOBACCO MANUFACTURES.....	11.	233.	45.	14.	1314.	1165.	0.	0.	0.	2782.
16-FABRICS.....	2490.	3273.	546.	111.	43188.	9155.	1577.	0.	230.	60571.
17-TEXTILE PRODUCTS.....	1371.	3337.	2611.	449.	3655.	4141.	1125.	1.	1934.	18624.
18-APPAREL.....	557.	3050.	2039.	1173.	5480.	4550.	2169.	115.	925.	20058.
19-MISC TEXTILE PRODUCTS.....	286.	833.	3321.	644.	2801.	1358.	701.	63.	514.	10521.
20-LUMBER & WOOD PRODUCTS.....	1553.	2389.	3993.	2890.	5392.	15478.	19494.	4087.	20947.	76222.
21-WOODEN CONTAINERS.....	23.	78.	93.	132.	222.	904.	505.	22.	299.	2279.
22-HOUSEHOLD FURNITURE.....	137.	700.	2029.	386.	948.	1091.	907.	46.	520.	6763.
23-OTHER FURNITURE.....	182.	1345.	4469.	747.	487.	370.	752.	41.	615.	9008.
24-PAPER & ALLIED PRODUCTS.....	3396.	11748.	43696.	17313.	39489.	73903.	111883.	2411.	70312.	374150.
25-PAPERBOARD CONTAINERS.....	270.	1632.	4694.	1701.	3285.	2980.	6029.	145.	4364.	25100.
26-PRINTING & PUBLISHING.....	1134.	6364.	13214.	5062.	2808.	2051.	2018.	946.	4859.	38457.
27-CHEMICALS, SELECTED PRODUCTS..	2169.	24391.	79788.	66196.	95686.	125058.	1241122.	18313.	58676.	1711399.
28-PLASTICS & SYNTHETICS.....	589.	2264.	4617.	2071.	18762.	15197.	71452.	0.	2948.	117900.
29-DRUGS & COSMETICS.....	187.	2612.	5922.	4253.	5584.	1150.	4178.	42.	2781.	26710.
30-PAINT & ALLIED PRODUCTS.....	42.	438.	1974.	676.	309.	408.	4446.	48.	1659.	10000.
31-PETROLEUM, RELATED INDUSTRIES.	2035.	37521.	48252.	51151.	28035.	32588.	664311.	23268.	112081.	999240.
*.01-PETROLEUM REFINING & PRODS.	0.	31242.	39668.	49939.	24270.	30876.	661300.	22724.	108782.	968800.
*.02-PAVING MIXTURES & BLOCKS...	1526.	4318.	3899.	448.	2359.	1036.	998.	491.	2174.	17250.
*.03-ASPHALT FELTS & COATINGS...	509.	1960.	4684.	763.	1406.	676.	2013.	52.	1125.	13190.
32-RUBBER, MISC PLASTICS.....	1865.	5693.	17992.	4977.	5427.	8003.	4263.	1284.	7595.	57099.
33-LEATHER TANNING & PRODUCTS....	134.	402.	2537.	67.	342.	206.	11.	0.	158.	3857.
34-FOOTWEAR, LEATHER PRODUCTS....	354.	1081.	2033.	197.	1222.	567.	344.	123.	184.	6103.
35-GLASS & GLASS PRODUCTS.....	1592.	33726.	58268.	6375.	42484.	11550.	22670.	0.	22845.	199510.
36-STONE & CLAY PRODUCTS.....	2520.	44563.	84021.	65059.	54303.	43223.	93316.	33560.	83487.	504050.
37-PRIMARY IRON, STEEL MFG.....	3381.	272837.	417296.	10044.	33863.	55303.	66183.	27860.	30737.	917500.
38-PRIMARY NONFERROUS MFG.....	5627.	42893.	106330.	8920.	14840.	26290.	88157.	28079.	24406.	345540.
39-METAL CONTAINERS.....	106.	2707.	4542.	1648.	2362.	299.	1497.	242.	2949.	16353.
40-FABRICATED METAL PRODUCTS.....	902.	12126.	18525.	4769.	3998.	5351.	6433.	1300.	5836.	59239.
41-SCREW MACHINE PRODUCTS, ETC...	834.	4330.	18072.	801.	393.	851.	288.	32.	1452.	27053.

42-OTHER FABRICATED METAL PRODS..	2782.	10259.	23601.	3035.	2262.	3373.	3535.	643.	4646.	54136.
43-ENGINES & TURBINES.....	131.	1816.	3994.	183.	54.	23.	33.	94.	203.	6531.
44-FARM MACHINERY & EQUIPMENT....	5.	562.	7152.	6140.	410.	1123.	383.	174.	281.	16230.
45-CONSTRUCTION MACH & EQUIPMENT.	28.	1478.	9356.	3127.	447.	292.	4221.	406.	744.	20099.
46-MATERIALS HAND MACH & EQUIP...	20.	1015.	2324.	281.	135.	294.	238.	17.	304.	4628.
47-METALWORKING MACH & EQUIPMENT.	969.	3222.	13102.	836.	546.	247.	415.	43.	791.	20172.
48-SPECIAL MACHINERY & EQUIPMENT.	459.	2176.	3353.	505.	1128.	334.	422.	50.	697.	9124.
49-GENERAL MACHINERY & EQUIPMENT.	823.	5296.	10162.	1068.	756.	830.	1450.	248.	1134.	21768.
50-MACHINE SHOP PRODUCTS.....	368.	2384.	5185.	1735.	706.	679.	1316.	397.	2331.	15100.
51-OFFICE, COMPUTING MACHINES....	161.	1017.	1134.	583.	416.	277.	91.	547.	602.	4827.
52-SERVICE INDUSTRY MACHINES.....	75.	1673.	4217.	1327.	385.	690.	1493.	106.	428.	10396.
53-ELECTRIC TRANSMISSION EQUIP...	652.	5378.	11401.	1625.	1277.	1405.	628.	222.	2159.	24746.
54-HOUSEHOLD APPLIANCES.....	269.	841.	12449.	1372.	517.	2906.	376.	24.	430.	19185.
55-ELECTRIC LIGHTING EQUIPMENT...	653.	3041.	5446.	943.	1131.	1560.	261.	29.	739.	13802.
56-RADIO, TV, ETC EQUIPMENT.....	457.	3128.	4526.	1352.	1128.	1384.	988.	173.	2207.	15343.
57-ELECTRONIC COMPONENTS.....	1440.	5337.	3504.	764.	785.	380.	623.	425.	2126.	15384.
58-MISC ELECTRICAL MACHINERY.....	235.	877.	5945.	914.	525.	289.	185.	23.	372.	9366.
59-MOTOR VEHICLES, EQUIPMENT.....	354.	4994.	57185.	7471.	1762.	1880.	1799.	19.	4362.	79825.
60-AIRCRAFT & PARTS.....	1058.	3841.	5470.	3720.	1899.	601.	4567.	200.	10716.	32071.
61-OTHER TRANSPORT EQUIPMENT.....	210.	1630.	3395.	786.	2713.	1065.	873.	25.	1349.	12046.
62-PROFESSIONAL, SCIENT EQUIP....	933.	2102.	3943.	969.	1336.	481.	297.	156.	774.	10991.
63-MEDICAL, PHOTOG EQUIPMENT.....	783.	2307.	1136.	228.	197.	0.	131.	5.	389.	5175.
64-MISC MANUFACTURING.....	1049.	3286.	5434.	1550.	886.	969.	646.	158.	995.	14974.
65-TRANSPORT & WAREHOUSING.....										70643.
*.01-RAILROADS & RELATED SVCES..										21570.
*.02-LAND PASSENGER TRANSPORT...										4208.
*.03-MOTOR FREIGHT TRANSPORT....										11220.
*.04-WATER TRANSPORT.....										3857.
*.05-AIR TRANSPORT.....										8767.
*.06-PIPELINES, EXC NATURAL GAS.	198.	810.	3012.	3851.	1205.	1232.	7789.	1581.	992.	20670.
*.07-TRANSPORT SERVICES.....										351.
66-COMMUNIC, EXCL BROADCASTING...	2694.	7089.	7611.	2408.	4817.	1711.	3328.	792.	6020.	36470.
67-RADIO & TV BROADCASTING.....	491.	3761.	2286.	766.	1244.	472.	763.	344.	2672.	12800.
68-ELEC, GAS, WATER, & SANIT SVC.	14967.	156013.	156031.	434080.	191028.	242304.	1424719.	212598.	664494.	3495999.
*.01-ELECTRIC UTILITIES.....	9469.	113776.	87936.	331139.	141276.	118569.	1257244.	151473.	634120.	2844999.
*.02-GAS UTILITIES.....	2424.	32414.	57613.	98693.	40627.	120344.	162446.	59022.	23819.	597400.
*.03-WATER & SANITARY SERVICES..	3075.	9823.	10482.	4248.	9125.	3391.	5030.	2103.	6555.	53830.
69-WHOLESALE & RETAIL TRADE.....	39182.	153237.	147099.	59174.	89679.	32424.	58748.	22893.	97477.	699910.
70-FINANCE & INSURANCE.....	6867.	28623.	16045.	6669.	9450.	3142.	6809.	2478.	13192.	93275.
71-REAL ESTATE & RENTAL.....	7287.	26556.	23739.	7540.	16656.	4372.	8740.	4271.	21640.	120800.
72-HOTELS, REPAIR SVC,EXC AUTO...	6688.	22055.	21829.	9115.	18589.	4974.	9538.	5528.	17065.	115380.
73-BUSINESS SERVICES.....	8316.	51903.	30324.	7976.	16513.	4597.	9285.	4851.	25266.	159030.
75-AUTO REPAIR & SERVICES.....	598.	1878.	2027.	831.	1606.	556.	1005.	432.	1766.	10700.
76-AMUSEMENTS.....	939.	7118.	3105.	1024.	2266.	494.	1039.	1195.	4740.	21920.
77-MED, ED SERV, NONPROF ORGAN...	38865.	99390.	77937.	30286.	44988.	14873.	25060.	12056.	54289.	397740.
78-FEDERAL GOVT ENTERPRISES.....	1895.	6377.	7130.	2620.	5071.	2965.	3212.	1151.	5171.	35590.
79-STATE & LOCAL GOVT ENTERPRISE	12628.	56421.	58157.	24118.	37322.	21336.	20765.	9918.	52135.	292800.
88-DOMESTIC FINAL DEMAND.....	118130.	736909.	1380708.	465349.	292550.	187020.	381110.	203290.	597199.	4362260.
89- ** CENSUS REGION TOTAL.....	316460.	2002843.	3208097.	1500786.	1237206.	1031128.	5112501.	782948.	2234523.	17476368.

* NOTE: COUNT ONLY SUBSECTORS WITHIN I/O SECTORS 31, 65, AND 68 WHEN SUMMING COLUMNS.
** NOTE: COLUMNS MAY NOT SUM EXACTLY TO REGIONAL TOTALS OR ROWS TO NATIONAL TOTALS DUE TO INDIVIDUAL ROUNDING.

TABLE 38 - COAL

(10**9 BTU). ONE UNIT IN THIS TABLE APPROXIMATES 38 TONS OF COAL

INDUSTRY NUMBER AND TITLE	NEW ENGLAND	MIDDLE ATLANTIC	EAST NORTH CENTRAL	WEST NORTH CENTRAL	SOUTH ATLANTIC	EAST SOUTH CENTRAL	WEST SOUTH CENTRAL	MOUNTAIN	PACIFIC	UNITED STATES
01-LIVESTOCK & LIVESTOCK PRODS...	160.	1949.	5583.	5571.	3183.	2340.	0.	1671.	675.	21132.
02-OTHER AGRICULTURAL PRODS.....	21.	257.	1335.	850.	895.	396.	0.	323.	258.	4335.
03-FORESTRY & FISHERY PRODS.....	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
04-AG,FORESTRY, & FISHERY SVCES..	38.	140.	328.	303.	705.	425.	0.	148.	80.	2167.
05-IRON & FERRO ORES MINING.....	0.	113.	320.	915.	27.	41.	0.	204.	6.	1626.
06-NONFERROUS METAL ORES MINING..	0.	142.	297.	110.	59.	92.	0.	2426.	125.	3251.
07-COAL MINING.....	0.	2083.	631.	127.	6891.	1679.	8.	220.	0.	11640.
08-CRUDE PETROLEUM & NATURAL GAS.	0.	96.	393.	39.	136.	395.	0.	404.	163.	1626.
09-STONE & CLAY MINING.....	12.	2398.	2988.	963.	3106.	990.	0.	350.	562.	11370.
10-CHEM & FERTILIZER MINERAL MNG.	12.	40.	103.	67.	965.	156.	0.	270.	12.	1626.
11-NEW CONSTRUCTION.....	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
12-MAINT & REPAIR CONSTRUCTION...	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
13-ORDNANCE & ACCESSORIES.....	616.	381.	584.	577.	783.	1109.	518.	575.	8403.	13546.
14-FOOD & KINDRED PRODUCTS.....	137.	25255.	96429.	40786.	6691.	13826.	0.	11974.	1902.	197000.
15-TOBACCO MANUFACTURES.....	0.	161.	0.	0.	7476.	1774.	0.	0.	0.	9410.
16-FABRICS.....	1282.	3317.	268.	20.	52788.	1903.	1.	0.	4.	59583.
17-TEXTILE PRODUCTS.....	233.	1483.	790.	12.	3247.	327.	2.	0.	0.	6095.
18-APPAREL.....	0.	2583.	829.	40.	4158.	351.	0.	0.	0.	7960.
19-MISC TEXTILE PRODUCTS.....	0.	654.	3448.	26.	2478.	121.	0.	0.	0.	6727.
20-LUMBER & WOOD PRODUCTS.....	292.	1393.	1239.	1190.	3523.	2324.	148.	145.	7.	10262.
21-WOODEN CONTAINERS.....	11.	41.	37.	55.	187.	211.	0.	0.	0.	542.
22-HOUSEHOLD FURNITURE.....	356.	710.	1884.	2.	3203.	285.	0.	0.	0.	6439.
23-OTHER FURNITURE.....	119.	770.	1611.	3.	541.	58.	0.	0.	0.	3101.
24-PAPER & ALLIED PRODUCTS.....	30562.	59118.	142386.	10471.	84305.	34159.	140.	0.	50.	361190.
25-PAPERBOARD CONTAINERS.....	75.	668.	1327.	43.	676.	59.	0.	0.	1.	2850.
26-PRINTING & PUBLISHING.....	0.	752.	1780.	335.	0.	0.	0.	0.	0.	2867.
27-CHEMICALS, SELECTED PRODUCTS..	488.	51370.	123475.	13193.	168581.	79944.	0.	900.	1299.	439250.
28-PLASTICS & SYNTHETICS.....	197.	14286.	24510.	770.	106791.	37534.	0.	0.	42.	184130.
29-DRUGS & COSMETICS.....	99.	6743.	8472.	1041.	2539.	666.	0.	6.	5.	19571.
30-PAINT & ALLIED PRODUCTS.....	1.	194.	613.	48.	77.	92.	0.	2.	3.	1029.
31-PETROLEUM, RELATED INDUSTRIES.	0.	12896.	16759.	1679.	4525.	3538.	0.	1765.	2146.	43309.
*.01-PETROLEUM REFINING & PRODS.	0.	6336.	9724.	951.	960.	1886.	0.	1343.	1309.	22510.
*.02-PAVING MIXTURES & BLOCKS...	0.	5813.	5249.	603.	3138.	1394.	0.	401.	740.	17339.
*.03-ASPHALT FELTS & COATINGS...	0.	748.	1787.	124.	427.	258.	0.	20.	97.	3460.
32-RUBBER, MISC PLASTICS.....	961.	9803.	43575.	574.	2522.	1314.	219.	315.	68.	59353.
33-LEATHER TANNING & PRODUCTS....	220.	791.	1898.	845.	2145.	241.	156.	0.	0.	6296.
34-FOOTWEAR, LEATHER PRODUCTS....	61.	413.	308.	200.	420.	180.	235.	269.	13.	2101.
35-GLASS & GLASS PRODUCTS.....	0.	2958.	3595.	223.	928.	573.	44.	0.	1.	8321.
36-STONE & CLAY PRODUCTS.....	0.	99708.	126649.	27733.	33216.	16934.	777.	8644.	50.	313710.
37-PRIMARY IRON, STEEL MFG.....	1290.	712366.	1218121.	3056.	211165.	47815.	236362.	10075.	750.	2440999.
38-PRIMARY NONFERROUS MFG.....	147.	8606.	21946.	105.	9516.	1968.	18870.	601.	36.	61795.
39-METAL CONTAINERS.....	12.	483.	941.	12.	15.	31.	0.	7.	0.	1501.
40-FABRICATED METAL PRODUCTS.....	119.	1927.	3537.	16.	85.	486.	0.	40.	0.	6210.
41-SCREW MACHINE PRODUCTS, ETC...	526.	2300.	12156.	24.	43.	304.	0.	0.	0.	15354.

42-OTHER FABRICATED METAL PRODS..	826.	3105.	8868.	21.	97.	725.	0.	3.	0.	13646.
43-ENGINES & TURBINES.....	148.	2573.	6178.	236.	4.	0.	0.	0.	1.	9140.
44-FARM MACHINERY & EQUIPMENT....	5.	462.	9758.	4944.	80.	718.	0.	27.	15.	16010.
45-CONSTRUCTION MACH & EQUIPMENT.	25.	779.	9867.	1948.	9.	34.	0.	12.	34.	12708.
46-MATERIALS HAND MACH & EQUIP...	10.	453.	1334.	53.	1.	55.	0.	0.	3.	1908.
47-METALWORKING MACH & EQUIPMENT.	129.	638.	2823.	60.	3.	25.	0.	0.	4.	3684.
48-SPECIAL MACHINERY & EQUIPMENT.	210.	1053.	1983.	121.	10.	61.	0.	0.	17.	3455.
49-GENERAL MACHINERY & EQUIPMENT.	164.	2187.	5212.	125.	11.	250.	0.	0.	11.	7959.
50-MACHINE SHOP PRODUCTS.....	48.	605.	1252.	35.	7.	79.	0.	2.	27.	2056.
51-OFFICE, COMPUTING MACHINES....	105.	1514.	1112.	61.	30.	447.	0.	2.	4.	3275.
52-SERVICE INDUSTRY MACHINES.....	29.	1071.	2728.	140.	10.	303.	0.	0.	5.	4287.
53-ELECTRIC TRANSMISSION EQUIP...	235.	2327.	5292.	0.	134.	624.	0.	0.	0.	8612.
54-HOUSEHOLD APPLIANCES.....	71.	417.	7877.	0.	46.	3011.	0.	0.	0.	11423.
55-ELECTRIC LIGHTING EQUIPMENT...	184.	923.	2258.	0.	195.	450.	0.	0.	0.	4010.
56-RADIO, TV, ETC EQUIPMENT.....	338.	1423.	4125.	0.	57.	407.	0.	0.	0.	6350.
57-ELECTRONIC COMPONENTS.....	149.	1004.	1222.	0.	22.	173.	0.	0.	0.	2570.
58-MISC ELECTRICAL MACHINERY.....	46.	273.	3261.	0.	19.	50.	0.	0.	0.	3649.
59-MOTOR VEHICLES, EQUIPMENT.....	0.	4713.	73081.	1552.	922.	725.	0.	2.	0.	80995.
60-AIRCRAFT & PARTS.....	23.	4182.	5863.	677.	11.	32.	0.	22.	0.	10811.
61-OTHER TRANSPORT EQUIPMENT.....	76.	2248.	4710.	86.	1668.	235.	0.	2.	0.	9024.
62-PROFESSIONAL, SCIENT EQUIP....	6.	737.	157.	15.	50.	1.	2.	9.	2.	979.
63-MEDICAL, PHOTOG EQUIPMENT.....	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
64-MISC MANUFACTURING.....	220.	1200.	1300.	774.	382.	359.	0.	376.	87.	4698.
65-TRANSPORT & WAREHOUSING.....										65126.
*.01-RAILROADS & RELATED SVCES..										30860.
*.02-LAND PASSENGER TRANSPORT...										1626.
*.03-MOTOR FREIGHT TRANSPORT....										16797.
*.04-WATER TRANSPORT.....										12050.
*.05-AIR TRANSPORT.....										2167.
*.06-PIPELINES, EXC NATURAL GAS.										542.
*.07-TRANSPORT SERVICES.....										1084.
66-COMMUNIC, EXCL BROADCASTING...	11.	667.	638.	125.	435.	146.	0.	57.	88.	2167.
67-RADIO & TV BROADCASTING.....	7.	729.	393.	92.	229.	82.	0.	48.	45.	1626.
68-ELEC, GAS, WATER, & SANIT SVC.	206306.	1252210.	2624368.	402205.	1524076.	1022858.	0.	194531.	3053.	7228996.
*.01-ELECTRIC UTILITIES.....	206306.	1243124.	2613600.	398673.	1515966.	1014957.	0.	191890.	1514.	7185999.
*.02-GAS UTILITIES.....	0.	1408.	2503.	1223.	1920.	5228.	0.	1260.	1318.	14860.
*.03-WATER & SANITARY SERVICES..	0.	7678.	8266.	2309.	6190.	2674.	0.	1380.	221.	28718.
69-WHOLESALE & RETAIL TRADE.....	74.	4555.	3903.	1088.	2546.	872.	0.	503.	547.	14088.
70-FINANCE & INSURANCE.....	30.	3454.	1707.	520.	1083.	341.	0.	228.	224.	7586.
71-REAL ESTATE & RENTAL.....	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
72-HOTELS, REPAIR SVC,EXC AUTO...	168.	8560.	7585.	2106.	6894.	1753.	0.	1670.	1065.	29802.
73-BUSINESS SERVICES.....	5.	1534.	787.	161.	464.	122.	0.	94.	84.	3251.
75-AUTO REPAIR & SERVICES.....	10.	441.	430.	116.	362.	118.	0.	76.	73.	1626.
76-AMUSEMENTS.....	3.	534.	205.	46.	159.	33.	0.	77.	26.	1084.
77-MED, ED SERV, NONPROF ORGAN...	329.	20058.	14080.	3910.	8793.	2727.	0.	1865.	1880.	53643.
78-FEDERAL GOVT ENTERPRISES.....	7.	286.	281.	69.	220.	121.	0.	37.	63.	1084.
79-STATE & LOCAL GOVT ENTERPRISE.	64.	3170.	2976.	687.	2009.	1088.	0.	436.	949.	11379.
88-DOMESTIC FINAL DEMAND.....	4297.	24497.	283746.	42994.	63142.	30130.	734.	24497.	6891.	480924.
89- ** CENSUS REGION TOTAL.....	252406.	2383923.	4972489.	576992.	2342768.	1323792.	258216.	265909.	31861.	12473426.

* NOTE: COUNT ONLY SUBSECTORS WITHIN I/O SECTORS 31, 65, AND 68 WHEN SUMMING COLUMNS.
** NOTE: COLUMNS MAY NOT SUM EXACTLY TO REGIONAL TOTALS OR ROWS TO NATIONAL TOTALS DUE TO INDIVIDUAL ROUNDING.

TABLE 3C - ELECTRICITY

(10**9 BTU). ONE UNIT IN THIS TABLE APPROXIMATES 293000 KWH OF ELECTRICITY

INDUSTRY NUMBER AND TITLE	NEW ENGLAND	MIDDLE ATLANTIC	EAST NORTH CENTRAL	WEST NORTH CENTRAL	SOUTH ATLANTIC	EAST SOUTH CENTRAL	WEST SOUTH CENTRAL	MOUNTAIN	PACIFIC	UNITED STATES
01-LIVESTOCK & LIVESTOCK PRODS...	990.	1795.	3373.	3836.	539.	500.	182.	1438.	3480.	16132.
02-OTHER AGRICULTURAL PRODS.....	0.	0.	0.	16414.	0.	0.	0.	0.	0.	16414.
03-FORESTRY & FISHERY PRODS.....	3.	1.	1.	0.	6.	2.	5.	2.	14.	34.
04-AG,FORESTRY, & FISHERY SVCES..	3.	6.	16.	24.	32.	21.	35.	10.	20.	168.
05-IRON & FERRO ORES MINING.....	0.	652.	1855.	5955.	159.	253.	39.	1665.	53.	10630.
06-NONFERROUS METAL ORES MINING..	0.	403.	884.	467.	179.	291.	320.	9792.	768.	13104.
07-COAL MINING.....	0.	409.	430.	22.	743.	313.	8.	48.	3.	1975.
08-CRUDE PETROLEUM & NATURAL GAS.	0.	202.	2012.	1836.	172.	281.	16231.	4515.	6770.	32020.
09-STONE & CLAY MINING.....	405.	1806.	2510.	1285.	2413.	810.	897.	394.	1360.	11880.
10-CHEM & FERTILIZER MINERAL MNG.	102.	76.	221.	203.	5368.	324.	860.	2058.	561.	9773.
11-NEW CONSTRUCTION.....	401.	1041.	1439.	507.	1013.	359.	768.	295.	845.	6667.
12-MAINT & REPAIR CONSTRUCTION...	60.	155.	198.	109.	144.	58.	83.	51.	148.	1008.
13-ORDNANCE & ACCESSORIES.....	1037.	1149.	1189.	1323.	1039.	282.	1262.	273.	6470.	14025.
14-FOOD & KINDRED PRODUCTS.....	3054.	16226.	19899.	14797.	10077.	6033.	7479.	3322.	11303.	92190.
15-TOBACCO MANUFACTURES.....	9.	248.	38.	12.	1520.	689.	0.	0.	0.	2516.
16-FABRICS.....	3839.	2578.	148.	22.	44599.	4752.	620.	0.	51.	56608.
17-TEXTILE PRODUCTS.....	831.	1231.	458.	57.	2342.	733.	161.	2.	155.	5969.
18-APPAREL.....	1084.	8608.	894.	476.	1867.	1219.	732.	52.	1006.	15938.
19-MISC TEXTILE PRODUCTS.....	215.	908.	736.	100.	336.	134.	94.	11.	199.	2733.
20-LUMBER & WOOD PRODUCTS.....	791.	967.	1791.	608.	2289.	1791.	1912.	1797.	12435.	24380.
21-WOODEN CONTAINERS.....	22.	44.	52.	31.	80.	143.	65.	6.	234.	677.
22-HOUSEHOLD FURNITURE.....	297.	753.	1072.	137.	1682.	559.	350.	39.	457.	5346.
23-OTHER FURNITURE.....	114.	656.	837.	120.	183.	90.	129.	16.	220.	2366.
24-PAPER & ALLIED PRODUCTS.....	10064.	12360.	14010.	3059.	7052.	8778.	5025.	269.	19938.	80555.
25-PAPERBOARD CONTAINERS.....	464.	1881.	1713.	294.	1003.	436.	431.	27.	1115.	7365.
26-PRINTING & PUBLISHING.....	1146.	5513.	5700.	1450.	1692.	587.	830.	342.	1809.	19069.
27-CHEMICALS, SELECTED PRODUCTS..	766.	18590.	50442.	1819.	22307.	70017.	93443.	6504.	19702.	283590.
28-PLASTICS & SYNTHETICS.....	210.	1199.	4124.	59.	4766.	12756.	6398.	0.	1023.	30535.
29-DRUGS & COSMETICS.....	79.	2684.	3727.	154.	572.	515.	365.	8.	1049.	9153.
30-PAINT & ALLIED PRODUCTS.....	7.	214.	855.	14.	25.	442.	214.	5.	349.	2125.
31-PETROLEUM, RELATED INDUSTRIES.	1779.	6790.	10320.	3353.	1143.	2009.	23678.	1994.	2558.	53624.
*.01-PETROLEUM REFINING & PRODS.	1644.	6382.	9798.	3281.	902.	1900.	23502.	1973.	2158.	51540.
*.02-PAVING MIXTURES & BLOCKS...	108.	305.	275.	32.	167.	73.	70.	18.	154.	1202.
*.03-ASPHALT FELTS & COATINGS...	27.	103.	247.	40.	75.	36.	106.	3.	246.	882.
32-RUBBER, MISC PLASTICS.....	4795.	6905.	11339.	1744.	2382.	2931.	1369.	428.	2919.	34812.
33-LEATHER TANNING & PRODUCTS....	241.	251.	309.	19.	70.	48.	2.	0.	34.	974.
34-FOOTWEAR, LEATHER PRODUCTS....	781.	830.	448.	223.	172.	234.	124.	50.	64.	2926.
35-GLASS & GLASS PRODUCTS.....	326.	4853.	4804.	514.	2844.	1443.	1011.	0.	1418.	17214.
36-STONE & CLAY PRODUCTS.....	2521.	9052.	9543.	4876.	6352.	4175.	4519.	2095.	7021.	50154.
37-PRIMARY IRON, STEEL MFG.....	1559.	43152.	71067.	2836.	14302.	20405.	5250.	3230.	15699.	177500.
38-PRIMARY NONFERROUS MFG.....	4880.	28714.	32999.	7963.	15533.	27617.	11857.	11252.	55264.	196080.
39-METAL CONTAINERS.....	44.	956.	932.	304.	711.	48.	192.	29.	710.	3926.
40-FABRICATED METAL PRODUCTS.....	572.	3520.	4506.	973.	1137.	979.	950.	186.	1607.	14431.
41-SCREW MACHINE PRODUCTS, ETC...	1175.	2682.	9069.	355.	226.	309.	80.	7.	724.	14628.

42-OTHER FABRICATED METAL PRODS..	1993.	3534.	6150.	625.	582.	595.	510.	71.	1248.	15308.
43-ENGINES & TURBINES.....	242.	1267.	2422.	29.	11.	10.	12.	37.	130.	4160.
44-FARM MACHINERY & EQUIPMENT....	4.	183.	2294.	598.	88.	217.	67.	31.	88.	3570.
45-CONSTRUCTION MACH & EQUIPMENT.	49.	753.	4773.	483.	151.	61.	1278.	134.	370.	8052.
46-MATERIALS HAND MACH & EQUIP...	20.	393.	762.	44.	39.	56.	49.	4.	109.	1477.
47-METALWORKING MACH & EQUIPMENT.	1350.	1632.	5478.	184.	218.	75.	113.	13.	362.	9423.
48-SPECIAL MACHINERY & EQUIPMENT.	637.	1266.	1539.	109.	401.	104.	125.	17.	349.	4546.
49-GENERAL MACHINERY & EQUIPMENT.	1039.	2552.	3924.	234.	182.	209.	351.	82.	485.	9057.
50-MACHINE SHOP PRODUCTS.....	511.	1346.	2358.	470.	297.	212.	363.	120.	1098.	6774.
51-OFFICE, COMPUTING MACHINES....	525.	1409.	991.	368.	314.	290.	50.	336.	635.	4918.
52-SERVICE INDUSTRY MACHINES.....	106.	851.	1637.	312.	134.	215.	384.	33.	184.	3856.
53-ELECTRIC TRANSMISSION EQUIP...	1433.	4961.	5644.	876.	1176.	903.	395.	90.	1580.	17058.
54-HOUSEHOLD APPLIANCES.....	233.	493.	3450.	473.	672.	1430.	97.	5.	176.	7028.
55-ELECTRIC LIGHTING EQUIPMENT...	695.	1639.	1427.	217.	358.	463.	82.	8.	270.	5159.
56-RADIO, TV, ETC EQUIPMENT.....	1574.	4530.	3454.	807.	1287.	1128.	764.	123.	1968.	15635.
57-ELECTRONIC COMPONENTS.....	1909.	6041.	2297.	510.	773.	365.	414.	310.	1650.	14269.
58-MISC ELECTRICAL MACHINERY.....	255.	588.	2263.	276.	304.	112.	74.	8.	171.	4051.
59-MOTOR VEHICLES, EQUIPMENT.....	436.	3538.	33078.	1968.	1207.	452.	532.	34.	2429.	43674.
60-AIRCRAFT & PARTS.....	3687.	4170.	5334.	1792.	1643.	271.	2238.	590.	9124.	28848.
61-OTHER TRANSPORT EQUIPMENT.....	515.	1121.	2393.	220.	1533.	410.	415.	41.	883.	7531.
62-PROFESSIONAL, SCIENT EQUIP....	453.	1342.	1290.	307.	264.	83.	71.	135.	490.	4435.
63-MEDICAL, PHOTOG EQUIPMENT.....	417.	1858.	419.	151.	80.	0.	120.	6.	370.	3422.
64-MISC MANUFACTURING.....	1327.	2921.	1422.	263.	365.	168.	149.	43.	593.	7250.
65-TRANSPORT & WAREHOUSING.....										62778.
*.01-RAILROADS & RELATED SVCES,+++	""NATIONAL TOTAL = 3989.0. INCLUDED WITH 65.02.""									
*.02-LAND PASSENGER TRANSPORT...	42.	12217.	1529.	70.	604.	0.	33.	271.	402.	15169.
*.03-MOTOR FREIGHT TRANSPORT....										1881.
*.04-WATER TRANSPORT.....										2318.
*.05-AIR TRANSPORT.....										1998.
*.06-PIPELINES, EXC NATURAL GAS.	394.	1607.	6190.	7637.	2390.	2443.	15446.	3136.	1967.	41210.
*.07-TRANSPORT SERVICES.....										201.
66-COMMUNIC, EXCL BROADCASTING...	1174.	3057.	3301.	1060.	2068.	736.	1423.	352.	2568.	15740.
67-RADIO & TV BROADCASTING.....	216.	1647.	1001.	341.	540.	205.	330.	156.	1139.	5576.
68-ELEC, GAS, WATER, & SANIT SVC.	15242.	57848.	80352.	24381.	61492.	38423.	41326.	18754.	62215.	400000.
*.01-ELECTRIC UTILITIES.....	14761.	56108.	78280.	22880.	59934.	36860.	39161.	17921.	60997.	386900.
*.02-GAS UTILITIES.....	21.	285.	506.	867.	384.	1057.	1426.	518.	209.	5273.
*.03-WATER & SANITARY SERVICES..	460.	1456.	1567.	635.	1173.	507.	739.	314.	1009.	7859.
69-WHOLESALE & RETAIL TRADE.....	16905.	65409.	62990.	25731.	38068.	13793.	24896.	10139.	41050.	298980.
70-FINANCE & INSURANCE.....	3165.	13083.	7339.	3098.	4287.	1428.	3081.	1180.	5921.	42582.
71-REAL ESTATE & RENTAL.....	1402.	5056.	4533.	1463.	3157.	830.	1652.	843.	4103.	23040.
72-HOTELS, REPAIR SVC,EXC AUTO...	2420.	7891.	7839.	3325.	6620.	1775.	3389.	2015.	6104.	41378.
73-BUSINESS SERVICES.....	716.	4425.	2583.	690.	1398.	389.	782.	419.	2114.	13517.
75-AUTO REPAIR & SERVICES.....	693.	2153.	2335.	972.	1833.	636.	1146.	513.	2001.	12280.
76-AMUSEMENTS.....	456.	3432.	1496.	502.	1083.	237.	496.	578.	2228.	10507.
77-MED, ED SERV, NONPROF ORGAN...	16834.	42578.	33470.	13210.	19196.	6346.	10656.	5395.	22994.	170680.
78-FEDERAL GOVT ENTERPRISES.....	522.	1738.	1946.	728.	1376.	804.	870.	325.	1397.	9706.
79-STATE & LOCAL GOVT ENTERPRISE.	1134.	5007.	5173.	2185.	3292.	1881.	1826.	913.	4509.	25920.
88-DOMESTIC FINAL DEMAND.....	54698.	160869.	216324.	95324.	214492.	108836.	114585.	46192.	221415.	1232729.
89- ** CENSUS REGION TOTAL.....	180092.	626460.	809157.	270385.	533046.	359956.	418563.	145660.	586441.	3936150.

* NOTE: COUNT ONLY SUBSECTORS WITHIN I/O SECTORS 31, 65, AND 68 WHEN SUMMING COLUMNS.
** NOTE: COLUMNS MAY NOT SUM EXACTLY TO REGIONAL TOTALS OR ROWS TO NATIONAL TOTALS DUE TO INDIVIDUAL ROUNDING.

TABLE 3D - PPP S

(10**9 BTU). ONE UNIT IN THIS TABLE APPROXIMATES 172 BARRELS OF FUEL OIL

INDUSTRY NUMBER AND TITLE	NEW ENGLAND	MIDDLE ATLANTIC	EAST NORTH CENTRAL	WEST NORTH CENTRAL	SOUTH ATLANTIC	EAST SOUTH CENTRAL	WEST SOUTH CENTRAL	MOUNTAIN	PACIFIC	UNITED STATES
01-LIVESTOCK & LIVESTOCK PRODS...	5366.	22513.	76452.	137404.	31441.	26338.	40931.	31737.	22419.	394600.
02-OTHER AGRICULTURAL PRODS.....	3601.	16712.	105041.	224277.	51763.	26054.	54689.	27393.	55174.	564700.
03-FORESTRY & FISHERY PRODS.....	2941.	1395.	990.	462.	6218.	2724.	5112.	2504.	15204.	37550.
04-AG,FORESTRY, & FISHERY SVCES..	107.	195.	505.	754.	1006.	650.	1104.	300.	639.	5259.
05-IRON & FERRO ORES MINING.....	0.	556.	1584.	5086.	136.	216.	33.	1422.	45.	9079.
06-NONFERROUS METAL ORES MINING..	0.	342.	751.	397.	152.	247.	272.	8317.	652.	11130.
07-COAL MINING.....	0.	5232.	5097.	199.	2835.	3646.	69.	263.	30.	17370.
08-CRUDE PETROLEUM & NATURAL GAS.	0.	144.	564.	1493.	907.	438.	14138.	752.	5295.	23730.
09-STONE & CLAY MINING.....	1268.	5651.	7855.	4023.	7552.	2534.	2808.	1233.	4257.	37180.
10-CHEM & FERTILIZER MINERAL MNG.	115.	86.	250.	230.	2277.	367.	975.	1983.	636.	6920.
11-NEW CONSTRUCTION.....	53454.	138731.	191851.	67560.	135055.	47833.	102356.	39306.	112660.	888800.
12-MAINT & REPAIR CONSTRUCTION...	12151.	31120.	39880.	21955.	28988.	11739.	16744.	10280.	29641.	202500.
13-ORDNANCE & ACCESSORIES.....	11258.	4479.	3464.	4274.	1128.	222.	849.	320.	1567.	27560.
14-FOOD & KINDRED PRODUCTS.....	20162.	60228.	26210.	17462.	32597.	2807.	1635.	3192.	21407.	185700.
15-TOBACCO MANUFACTURES.....	17.	515.	69.	22.	2490.	373.	0.	0.	0.	3485.
16-FABRICS.....	16156.	10283.	145.	33.	18037.	881.	130.	0.	25.	45690.
17-TEXTILE PRODUCTS.....	5354.	6879.	316.	138.	1102.	251.	138.	5.	6.	14190.
18-APPAREL.....	2553.	11037.	1269.	475.	4150.	691.	0.	0.	2545.	22720.
19-MISC TEXTILE PRODUCTS.....	200.	450.	247.	38.	230.	30.	0.	0.	187.	1381.
20-LUMBER & WOOD PRODUCTS.....	2926.	4221.	2502.	969.	12242.	3871.	866.	2070.	32453.	62120.
21-WOODEN CONTAINERS.....	45.	77.	32.	14.	126.	122.	8.	15.	259.	698.
22-HOUSEHOLD FURNITURE.....	572.	1071.	1015.	51.	783.	206.	110.	34.	72.	3914.
23-OTHER FURNITURE.....	174.	854.	707.	51.	161.	38.	23.	13.	13.	2033.
24-PAPER & ALLIED PRODUCTS.....	92902.	47825.	10488.	1912.	80054.	10855.	7879.	105.	39779.	291800.
25-PAPERBOARD CONTAINERS.....	1771.	3503.	704.	104.	7093.	210.	166.	3.	1085.	14640.
26-PRINTING & PUBLISHING.....	3303.	7333.	5322.	1149.	1253.	89.	487.	95.	200.	19230.
27-CHEMICALS, SELECTED PRODUCTS..	18588.	96964.	18798.	5135.	34772.	3246.	5692.	1365.	14740.	199300.
28-PLASTICS & SYNTHETICS.....	40861.	71902.	9642.	736.	80626.	4349.	577.	0.	6807.	215500.
29-DRUGS & COSMETICS.....	3567.	15878.	2419.	605.	5116.	40.	25.	25.	837.	28510.
30-PAINT & ALLIED PRODUCTS.....	2216.	13780.	4216.	510.	1758.	153.	79.	58.	2691.	25460.
31-PETROLEUM, RELATED INDUSTRIES.	40580.	490893.	430765.	93224.	106361.	28524.	166456.	59315.	410184.	1825999.
*.01-PETROLEUM REFINING & PRODS.	15077.	412152.	322833.	77969.	59015.	7035.	128514.	51687.	368721.	1442999.
*.02-PAVING MIXTURES & BLOCKS...	19061.	53949.	48718.	5600.	29460.	12943.	12469.	6138.	27162.	215500.
*.03-ASPHALT FELTS & COATINGS...	6442.	24792.	59214.	9656.	17885.	8546.	25473.	1491.	14301.	167800.
32-RUBBER, MISC PLASTICS.....	11994.	10090.	4271.	513.	3511.	1328.	40.	51.	172.	31970.
33-LEATHER TANNING & PRODUCTS....	3176.	1598.	847.	16.	973.	1.	2.	0.	22.	6634.
34-FOOTWEAR, LEATHER PRODUCTS....	2488.	1096.	375.	62.	188.	10.	21.	8.	11.	4259.
35-GLASS & GLASS PRODUCTS.....	505.	6956.	1998.	138.	1970.	186.	243.	0.	643.	12640.
36-STONE & CLAY PRODUCTS.....	13170.	35223.	10721.	4302.	27696.	2160.	4083.	3945.	9900.	111200.
37-PRIMARY IRON, STEEL MFG.....	5940.	80805.	99526.	3748.	28575.	5523.	1349.	5464.	6771.	237700.
38-PRIMARY NONFERROUS MFG.....	5276.	14172.	13678.	843.	4389.	1133.	712.	2586.	2682.	45470.
39-METAL CONTAINERS.....	142.	1460.	474.	134.	294.	12.	11.	12.	175.	2714.
40-FABRICATED METAL PRODUCTS.....	2345.	6691.	2231.	535.	739.	328.	39.	110.	502.	13520.
41-SCREW MACHINE PRODUCTS, ETC...	3190.	3739.	3146.	186.	139.	59.	2.	1.	108.	10570.

42-OTHER FABRICATED METAL PRODS..	16315.	14175.	6528.	781.	861.	379.	32.	32.	607.	40310.
43-ENGINES & TURBINES.....	2088.	4084.	3441.	52.	14.	7.	2.	11.	14.	9713.
44-FARM MACHINERY & EQUIPMENT....	22.	303.	1592.	403.	74.	42.	5.	4.	35.	2480.
45-CONSTRUCTION MACH & EQUIPMENT.	166.	1779.	4010.	473.	242.	26.	161.	31.	194.	7082.
46-MATERIALS HAND MACH & EQUIP...	113.	882.	517.	26.	65.	18.	6.	1.	70.	1697.
47-METALWORKING MACH & EQUIPMENT.	3934.	2580.	2603.	89.	274.	21.	10.	1.	52.	9564.
48-SPECIAL MACHINERY & EQUIPMENT.	3338.	2108.	1226.	75.	669.	40.	15.	4.	189.	8665.
49-GENERAL MACHINERY & EQUIPMENT.	2877.	4169.	2259.	94.	206.	35.	25.	9.	69.	9741.
50-MACHINE SHOP PRODUCTS.....	1464.	1873.	1191.	148.	338.	46.	26.	9.	298.	5394.
51-OFFICE, COMPUTING MACHINES....	1213.	1224.	256.	183.	114.	1.	1.	40.	24.	3058.
52-SERVICE INDUSTRY MACHINES.....	354.	1299.	797.	136.	171.	32.	33.	2.	27.	2852.
53-ELECTRIC TRANSMISSION EQUIP...	1721.	3500.	1303.	146.	487.	82.	3.	1.	198.	7442.
54-HOUSEHOLD APPLIANCES.....	743.	843.	1682.	239.	294.	227.	4.	0.	22.	4053.
55-ELECTRIC LIGHTING EQUIPMENT...	1241.	1896.	558.	46.	156.	72.	1.	0.	20.	3990.
56-RADIO, TV, ETC EQUIPMENT.....	247.	520.	215.	32.	88.	21.	1.	1.	8.	1131.
57-ELECTRONIC COMPONENTS.....	2291.	4481.	881.	122.	373.	19.	7.	8.	43.	8224.
58-MISC ELECTRICAL MACHINERY.....	592.	965.	957.	115.	298.	26.	2.	4.	25.	2984.
59-MOTOR VEHICLES, EQUIPMENT.....	1137.	6181.	7814.	733.	2273.	84.	67.	55.	516.	18860.
60-AIRCRAFT & PARTS.....	6131.	4255.	973.	307.	2971.	64.	157.	754.	1897.	17510.
61-OTHER TRANSPORT EQUIPMENT.....	232.	315.	221.	16.	364.	23.	11.	11.	53.	1247.
62-PROFESSIONAL, SCIENT EQUIP....	2273.	2052.	1063.	262.	553.	15.	33.	31.	5.	6287.
63-MEDICAL, PHOTOG EQUIPMENT.....	2200.	5080.	610.	200.	100.	0.	37.	2.	17.	8247.
64-MISC MANUFACTURING.....	4797.	3892.	1540.	460.	249.	67.	28.	20.	17.	11070.
65-TRANSPORT & WAREHOUSING.....										3020999.
*.01-RAILROADS & RELATED SVCES..	9838.	60144.	109380.	66788.	71605.	35266.	49522.	79914.	70047.	552500.
*.02-LAND PASSENGER TRANSPORT, +++		""NATIONAL TOTAL =		17000.0.	INCLUDED	WITH 65.03.""				
*.03-MOTOR FREIGHT TRANSPORT....	33812.	89931.	134605.	73757.	108461.	54160.	83306.	48774.	90998.	717800.
*.04-WATER TRANSPORT.....	14762.	205594.	11677.	4121.	61620.	26424.	146776.	0.	138029.	609000.
*.05-AIR TRANSPORT.....	36838.	210690.	161909.	53658.	172782.	25425.	83993.	61598.	308112.	1119999.
*.06-PIPELINES, EXC NATURAL GAS.	209.	676.	3167.	4049.	1268.	1296.	8189.	1663.	1043.	21560.
*.07-TRANSPORT SERVICES.....	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
66-COMMUNIC, EXCL BROADCASTING...	5099.	13279.	14340.	4605.	8985.	3196.	6181.	1528.	11156.	68370.
67-RADIO & TV BROADCASTING.....	20.	155.	94.	32.	51.	19.	31.	15.	107.	526.
68-ELEC, GAS, WATER, & SANIT SVC.	251601.	381011.	5520.	5015.	205167.	3320.	4515.	11796.	165209.	1033000.
*.01-ELECTRIC UTILITIES.....	251126.	379453.	3084.	2395.	203155.	326.	422.	10267.	163777.	1014000.
*.02-GAS UTILITIES.....	51.	215.	989.	2033.	928.	2526.	3410.	1239.	500.	11890.
*.03-WATER & SANITARY SERVICES..	424.	1344.	1447.	586.	1084.	468.	682.	290.	932.	7258.
69-WHOLESALE & RETAIL TRADE.....	85445.	330601.	318374.	130052.	192407.	69715.	125834.	51245.	207331.	1510999.
70-FINANCE & INSURANCE.....	7178.	29667.	16643.	7025.	9721.	3238.	6987.	2676.	13427.	96560.
71-REAL ESTATE & RENTAL.....	46055.	166055.	148884.	48047.	103674.	27263.	54255.	27689.	132181.	754100.
72-HOTELS, REPAIR SVC,EXC AUTO...	14292.	46607.	46300.	19641.	39100.	10486.	20019.	11903.	36052.	244400.
73-BUSINESS SERVICES.....	7295.	45109.	26328.	7036.	14256.	3966.	7976.	4276.	21556.	137800.
75-AUTO REPAIR & SERVICES.....	10321.	32060.	34775.	14473.	27300.	9476.	17061.	7639.	29797.	182900.
76-AMUSEMENTS.....	813.	6114.	2665.	894.	1929.	422.	883.	1031.	3969.	18720.
77-MED, ED SERV, NONPROF ORGAN...	22072.	55825.	43883.	17320.	35168.	8321.	13972.	7074.	29366.	223000.
78-FEDERAL GOVT ENTERPRISES.....	2484.	8270.	9258.	3462.	6548.	3827.	4140.	1547.	6645.	46180.
79-STATE & LOCAL GOVT ENTERPRISE.	1896.	8372.	8650.	3654.	5504.	3145.	3053.	1526.	7539.	43340.
88-DOMESTIC FINAL DEMAND.....	1014550.	2245587.	2263440.	1120991.	1785334.	627783.	1002967.	480410.	1469009.	12109999.
89- ** CENSUS REGION TOTAL.....	2011099.	5237867.	4588528.	2190974.	3578991.	1108575.	2076178.	1007612.	3548458.	25348080.

* NOTE: COUNT ONLY SUBSECTORS WITHIN I/O SECTORS 31, 65, AND 68 WHEN SUMMING COLUMNS.

** NOTE: COLUMNS MAY NOT SUM EXACTLY TO REGIONAL TOTALS OR ROWS TO NATIONAL TOTALS DUE TO INDIVIDUAL ROUNDING.

TABLE 3E

DISTILLATE FUEL OILS

(10**9 BTU)

STATE LABEL	SIC 20*	SIC 21	SIC 22	SIC 23	SIC 24	SIC 25	SIC 26	SIC 27	SIC 28	SIC 29
CT	363.	0.	1050.	297.	0.	0.	1625.	151.	439.	0.
MA	1753.	0.	2184.	153.	150.	129.	5153.	174.	2177.	403.
RI	322.	0.	1139.	27.	0.	5.	40.	68.	12.	0.
VT	0.	0.	0.	0.	0.	41.	122.	0.	47.	0.
ME	1585.	0.	27.	7.	170.	0.	2762.	16.	5.	0.
NH	135.	0.	975.	0.	249.	0.	193.	22.	67.	0.
NJ	7871.	0.	1330.	444.	248.	145.	5575.	631.	21592.	5553.
NY	5395.	0.	1393.	482.	409.	490.	5376.	592.	2822.	784.
PA	4991.	592.	2603.	1342.	0.	537.	5659.	433.	2788.	347.
IL	2572.	0.	86.	146.	230.	361.	1198.	935.	2558.	333.
IN	646.	0.	0.	52.	67.	235.	552.	189.	454.	228.
MN	1192.	0.	0.	45.	97.	110.	815.	72.	250.	0.
OH	978.	0.	0.	0.	76.	0.	931.	84.	970.	529.
WI	1777.	0.	50.	23.	198.	17.	942.	54.	213.	0.
IA	2096.	0.	0.	0.	39.	0.	42.	0.	0.	0.
KA	146.	0.	0.	0.	0.	2.	10.	0.	376.	0.
MI	1651.	0.	120.	34.	58.	0.	121.	199.	199.	45.
MO	266.	0.	1.	61.	95.	0.	103.	33.	820.	141.
NB	386.	0.	0.	0.	0.	0.	0.	0.	171.	0.
ND	405.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SD	144.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DE	362.	0.	0.	0.	0.	0.	0.	0.	1747.	0.
FL	2321.	0.	0.	0.	241.	0.	5219.	0.	2768.	181.
GA	1340.	0.	1862.	61.	0.	24.	6576.	0.	573.	0.
MD	1085.	0.	0.	90.	0.	182.	406.	49.	936.	0.
DC	196.	0.	0.	0.	0.	0.	0.	50.	0.	0.
NC	1079.	771.	3566.	292.	532.	284.	326.	0.	581.	0.
SC	118.	0.	1868.	68.	781.	35.	7342.	0.	344.	0.
VA	1578.	84.	290.	309.	700.	59.	1381.	30.	1478.	0.
WV	0.	0.	0.	0.	150.	0.	0.	0.	223.	22.
AL	136.	0.	472.	19.	0.	0.	1284.	0.	199.	65.
KY	249.	83.	6.	12.	0.	0.	22.	0.	162.	0.
MS	90.	0.	54.	7.	85.	0.	1047.	0.	51.	0.
TE	451.	8.	214.	23.	119.	97.	581.	2.	241.	0.
AS	33.	0.	12.	0.	186.	0.	260.	0.	1.	0.
LA	313.	0.	0.	0.	33.	0.	1070.	0.	12.	385.
OK	28.	0.	0.	0.	0.	0.	1.	0.	0.	63.
TX	236.	0.	0.	0.	6.	0.	19.	0.	1.	83.
AZ	30.	0.	0.	0.	2.	0.	0.	0.	8.	0.
CO	712.	0.	0.	0.	0.	0.	1.	0.	2.	47.
ID	404.	0.	0.	0.	164.	0.	0.	0.	6.	91.
MT	51.	0.	0.	0.	200.	0.	0.	0.	0.	0.
NV	0.	0.	0.	0.	0.	0.	0.	0.	20.	0.
NM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UT	43.	0.	0.	0.	0.	0.	0.	0.	110.	0.
WY	27.	0.	0.	0.	0.	0.	0.	0.	0.	0.
AK	991.	0.	0.	0.	377.	0.	0.	0.	0.	0.
CA	2417.	0.	2.	665.	3779.	1.	2409.	1.	2678.	953.
OR	488.	0.	0.	0.	2870.	0.	496.	0.	148.	52.
WA	1184.	0.	0.	0.	2642.	0.	3498.	0.	718.	0.
HA	675.	0.	0.	0.	0.	0.	0.	0.	0.	0.
US	51412.	1538.	19806.	6658.	14953.	2755.	63155.	3785.	48965.	10304.

STATE LABEL	SIC 30*	SIC 31	SIC 32	SIC 33	SIC 34	SIC 35	SIC 36	SIC 37	SIC 38	SIC 39*	STATE TOTAL
CT	327.	27.	436.	1866.	930.	1470.	837.	1326.	287.	791.	12722.
MA	842.	559.	1422.	1837.	3006.	1906.	567.	119.	857.	757.	24150.
RI	0.	0.	532.	903.	162.	215.	193.	0.	45.	197.	3862.
VT	0.	4.	231.	0.	0.	161.	48.	0.	0.	0.	654.
ME	22.	139.	109.	22.	0.	69.	0.	60.	0.	0.	4994.
NH	29.	146.	216.	185.	104.	181.	356.	0.	44.	23.	2924.
NJ	1490.	407.	5935.	3484.	1950.	1665.	1372.	1781.	349.	494.	62815.
NY	460.	374.	3842.	6582.	1284.	1100.	3029.	2444.	305.	1149.	38310.
PA	966.	292.	4161.	15623.	2600.	2532.	1465.	1372.	104.	636.	49043.
IL	263.	136.	1802.	11145.	1432.	1887.	1326.	1145.	697.	684.	28934.
IN	253.	0.	1476.	13294.	468.	1228.	602.	1862.	93.	337.	22035.
MN	177.	0.	782.	7898.	511.	986.	171.	949.	46.	24.	14128.
OH	215.	22.	831.	17206.	340.	669.	133.	344.	11.	281.	23620.
WI	45.	76.	272.	525.	299.	821.	366.	213.	0.	159.	6051.
IA	11.	0.	0.	126.	108.	226.	267.	35.	0.	0.	2950.
KA	0.	0.	94.	45.	27.	10.	0.	8.	0.	13.	732.
MI	17.	0.	276.	25.	311.	236.	87.	47.	206.	287.	3920.
MO	31.	0.	397.	602.	67.	151.	121.	131.	14.	52.	3084.
NB	0.	0.	1.	138.	19.	0.	61.	3.	0.	149.	929.
ND	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	405.
SD	0.	0.	0.	0.	0.	7.	0.	0.	0.	0.	151.
DE	156.	70.	0.	109.	5.	4.	0.	0.	15.	0.	2468.
FL	1.	0.	6134.	20.	80.	0.	0.	0.	0.	0.	16964.
GA	50.	0.	1468.	264.	26.	2.	20.	9.	0.	0.	12275.
MD	494.	0.	1577.	2626.	300.	65.	277.	634.	0.	163.	8883.
DC	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	246.
NC	259.	0.	387.	72.	116.	116.	236.	0.	316.	22.	8955.
SC	84.	0.	276.	433.	0.	135.	82.	48.	28.	3.	11645.
VA	82.	72.	1646.	592.	58.	121.	151.	329.	32.	85.	9075.
WV	0.	0.	61.	2014.	91.	29.	19.	0.	0.	0.	2608.
AL	495.	0.	625.	637.	74.	3.	8.	87.	0.	0.	4105.
KY	26.	0.	100.	389.	51.	3.	19.	9.	1.	1.	1134.
MS	0.	0.	60.	0.	2.	0.	0.	0.	0.	0.	1396.
TE	72.	1.	257.	210.	112.	119.	286.	44.	0.	7.	2844.
AS	3.	0.	151.	118.	0.	0.	0.	0.	0.	0.	764.
LA	0.	0.	110.	0.	26.	0.	9.	16.	0.	0.	1974.
OK	0.	0.	0.	0.	1.	0.	0.	0.	0.	0.	93.
TX	0.	0.	1048.	1288.	12.	111.	12.	133.	0.	88.	3036.
AZ	0.	0.	26.	329.	0.	0.	0.	0.	0.	0.	395.
CO	0.	0.	65.	0.	16.	76.	0.	0.	0.	0.	917.
ID	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	665.
MT	0.	0.	6.	0.	0.	0.	0.	0.	0.	0.	257.
NV	0.	0.	956.	0.	0.	0.	0.	0.	0.	0.	976.
NM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UT	0.	0.	119.	1233.	0.	0.	0.	597.	0.	0.	2102.
WY	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	27.
AK	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1368.
CA	63.	0.	1361.	5246.	208.	75.	38.	1037.	4.	3.	20941.
OR	0.	0.	546.	368.	34.	63.	2.	56.	0.	0.	5123.
WA	0.	0.	609.	580.	113.	13.	0.	648.	0.	0.	10004.
HA	0.	0.	186.	0.	0.	0.	0.	0.	0.	0.	861.
US	7432.	2324.	40589.	98033.	14942.	16455.	12163.	15488.	3454.	6405.	438514.

* NOTE: TWO-DIGIT MANUFACTURING SIC. SIC 39 INCLUDES SIC 19.

TABLE 3F

RESIDUAL FUEL OILS

(10**9 BTU)

STATE LABEL	SIC 20*	SIC 21	SIC 22	SIC 23	SIC 24	SIC 25	SIC 26	SIC 27	SIC 28	SIC 29
CT	1130.	0.	4612.	262.	0.	0.	5929.	326.	7311.	0.
MA	6473.	0.	5726.	89.	158.	527.	11935.	983.	5644.	2155.
RI	716.	0.	4081.	0.	0.	0.	925.	86.	419.	0.
VT	0.	0.	0.	0.	0.	0.	444.	0.	0.	0.
ME	1156.	0.	2689.	30.	159.	0.	34554.	37.	566.	0.
NH	1030.	0.	1877.	0.	233.	0.	6841.	164.	69.	0.
NJ	6852.	0.	4815.	121.	247.	179.	10746.	338.	17560.	29030.
NY	9095.	0.	3248.	382.	168.	458.	10042.	978.	4976.	124.
PA	6062.	111.	4217.	355.	0.	161.	9556.	381.	13087.	2276.
IL	5507.	0.	320.	128.	214.	544.	1154.	409.	2883.	1102.
IN	938.	0.	0.	0.	63.	232.	72.	78.	536.	8057.
MN	1327.	0.	0.	54.	0.	223.	2314.	12.	2189.	0.
OH	951.	0.	0.	0.	27.	0.	163.	21.	1024.	698.
WI	2119.	0.	0.	118.	185.	75.	1617.	350.	118.	0.
IA	847.	0.	0.	0.	0.	0.	80.	0.	0.	0.
KA	440.	0.	0.	0.	0.	0.	31.	0.	350.	0.
MI	3066.	0.	0.	43.	40.	0.	1016.	6.	216.	244.
MO	1344.	0.	10.	18.	89.	0.	374.	102.	71.	17.
NB	254.	0.	0.	0.	0.	0.	0.	0.	0.	0.
ND	23.	0.	0.	0.	0.	0.	0.	0.	0.	0.
SD	728.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DE	1271.	0.	0.	0.	0.	0.	0.	0.	3523.	0.
FL	4933.	0.	0.	0.	225.	0.	26508.	0.	4823.	226.
GA	548.	0.	3798.	36.	0.	0.	12124.	0.	962.	0.
MD	5400.	0.	0.	79.	0.	0.	879.	87.	5201.	0.
DC	435.	0.	0.	0.	0.	0.	0.	204.	0.	0.
NC	1103.	308.	6069.	53.	456.	131.	13272.	0.	730.	0.
SC	261.	0.	2971.	180.	299.	78.	7639.	0.	504.	0.
VA	842.	666.	469.	34.	653.	81.	5031.	102.	2029.	0.
WV	0.	0.	0.	0.	140.	0.	0.	0.	143.	51.
AL	12.	0.	123.	18.	0.	0.	1926.	0.	191.	43.
KY	322.	172.	0.	46.	0.	0.	55.	0.	102.	0.
MS	41.	0.	49.	0.	30.	0.	638.	0.	130.	0.
TE	527.	0.	132.	154.	0.	0.	2246.	53.	203.	57.
AS	2.	0.	153.	0.	12.	0.	1086.	0.	1356.	0.
LA	26.	0.	0.	0.	0.	0.	3275.	0.	0.	0.
OK	53.	0.	0.	0.	0.	0.	36.	0.	0.	0.
TX	331.	0.	0.	0.	4.	1.	188.	0.	311.	5973.
AZ	5.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CC	387.	0.	0.	0.	0.	0.	6.	0.	185.	74.
ID	192.	0.	0.	0.	105.	0.	0.	0.	0.	488.
MT	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NV	0.	0.	0.	0.	0.	0.	0.	0.	48.	0.
NM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UT	58.	0.	0.	0.	0.	0.	0.	0.	6.	0.
WY	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.
AK	154.	0.	0.	0.	0.	0.	0.	0.	0.	0.
CA	2720.	0.	0.	0.	1654.	0.	4216.	0.	681.	1345.
OR	835.	0.	0.	0.	1962.	0.	5251.	0.	781.	279.
WA	1036.	0.	0.	0.	145.	0.	15456.	0.	1090.	0.
HA	4267.	0.	0.	0.	0.	0.	0.	0.	0.	0.
US	75817.	1257.	45359.	2200.	7268.	2691.	197625.	4716.	80015.	52244.

STATE LABEL	SIC 30*	SIC 31	SIC 32	SIC 33	SIC 34	SIC 35	SIC 36	SIC 37	SIC 38	SIC 39*	STATE TOTAL
CT	3328.	171.	1851.	6373.	2456.	2563.	1188.	5677.	1035.	4300.	48510.
MA	3816.	2004.	2685.	2222.	1445.	3853.	4951.	2163.	712.	1643.	59183.
RI	0.	0.	258.	1171.	202.	478.	67.	0.	180.	468.	9051.
VT	0.	0.	434.	0.	0.	80.	126.	0.	0.	0.	1085.
ME	759.	1474.	1653.	77.	0.	104.	0.	336.	0.	0.	43595.
NH	148.	1121.	418.	0.	49.	298.	41.	0.	0.	23.	12312.
NJ	2262.	131.	11136.	11549.	2016.	2175.	4556.	1662.	560.	605.	106538.
NY	888.	179.	6600.	11415.	2001.	3447.	1870.	2952.	3521.	712.	62996.
PA	585.	209.	4646.	37115.	2285.	3880.	2233.	1932.	231.	1203.	90524.
IL	1411.	458.	2803.	9843.	1322.	2069.	2795.	445.	190.	279.	33876.
IN	61.	0.	566.	22361.	402.	427.	260.	745.	12.	75.	34884.
MN	440.	0.	1214.	2047.	490.	1159.	38.	3357.	28.	3.	14893.
OH	135.	0.	577.	6738.	192.	248.	162.	756.	0.	63.	11753.
WI	123.	149.	0.	891.	246.	812.	30.	369.	0.	23.	7225.
IA	316.	0.	0.	17.	52.	230.	0.	0.	0.	0.	1542.
KA	0.	0.	250.	82.	0.	0.	0.	189.	0.	331.	1672.
MI	0.	0.	1062.	3200.	96.	361.	10.	393.	0.	174.	9927.
MO	0.	0.	131.	189.	13.	0.	8.	475.	47.	341.	3230.
NB	0.	0.	3.	0.	47.	0.	0.	6.	25.	0.	333.
ND	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	23.
SD	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	728.
DE	185.	441.	0.	1393.	34.	57.	0.	0.	0.	0.	6903.
FL	0.	0.	142.	0.	0.	0.	0.	0.	13.	0.	36871.
GA	190.	0.	13.	0.	6.	25.	53.	240.	0.	0.	17995.
MD	35.	0.	5255.	21965.	157.	583.	59.	2511.	0.	67.	42277.
DC	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	639.
NC	159.	0.	2712.	22.	12.	141.	450.	0.	9.	0.	25626.
SC	0.	0.	647.	292.	0.	84.	122.	28.	0.	0.	13104.
VA	493.	16.	111.	0.	26.	17.	201.	1585.	33.	0.	12390.
WV	0.	0.	65.	3.	17.	165.	0.	0.	0.	0.	583.
AL	0.	0.	16.	4697.	0.	0.	21.	118.	0.	0.	7165.
KY	18.	0.	216.	443.	0.	0.	0.	3.	0.	66.	1443.
MS	0.	0.	62.	0.	0.	43.	78.	0.	0.	0.	1069.
TE	2.	0.	276.	0.	97.	0.	14.	0.	5.	0.	3766.
AS	0.	0.	1763.	47.	0.	0.	0.	0.	0.	0.	4419.
LA	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3301.
OK	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	89.
TX	0.	0.	87.	750.	0.	27.	0.	75.	0.	0.	7747.
AZ	0.	0.	272.	18.	0.	0.	0.	0.	0.	0.	295.
CO	0.	0.	122.	0.	0.	0.	0.	0.	0.	0.	775.
ID	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	786.
MT	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
NV	0.	0.	129.	0.	0.	0.	0.	0.	0.	0.	177.
NM	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
UT	0.	0.	599.	2254.	0.	0.	0.	0.	0.	0.	2916.
WY	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.
AK	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	154.
CA	26.	0.	2959.	749.	187.	26.	27.	175.	0.	0.	13865.
OR	0.	0.	1025.	674.	43.	104.	204.	44.	0.	0.	11202.
WA	0.	0.	1143.	1560.	141.	420.	0.	397.	0.	0.	21389.
HA	0.	0.	1085.	0.	0.	0.	0.	0.	0.	0.	5352.
US	15377.	6293.	54082.	150154.	14031.	23878.	19564.	26633.	6601.	10374.	796180.

* NOTE: TWO-DIGIT MANUFACTURING SIC. SIC 39 INCLUDES SIC 19.

TABLE 3G

CRUDE OIL & GAS

(10**9 BTU)

CENSUS REGION LABEL	SECTOR 08 CRUDE OIL & GAS DRILLING	SECTOR 27 CHEMICALS (CARBON BLACK)	SECTOR 31.01 PETROLEUM REFINING	SECTOR 68.02 GAS UTILITIES	TOTAL CRUDE OIL & GAS
NEW ENGLAND.....	0.	0.	0.	259480.	259480.
MIDDLE ATLANTIC.....	809.	0.	1480625.	1894869.	3376303.
EAST NORTH CENTRAL..	3967.	0.	4269669.	4145903.	8419537.
WEST NORTH CENTRAL..	6508.	0.	1429783.	1918077.	3354370.
SOUTH ATLANTIC.....	2848.	0.	405349.	1374270.	1782465.
EAST SOUTH CENTRAL..	14851.	6894.	994396.	1103938.	2120078.
WEST SOUTH CENTRAL..	752522.	82723.	10094849.	3489447.	14419540.
MOUNTAIN.....	58182.	0.	896699.	919769.	1874648.
PACIFIC.....	150014.	18383.	3598670.	2764312.	6531380.
UNITED STATES.....	989700.	108000.	23169984.	17869984.	42137664.

4. EVALUATION*

This section examines critically the following elements:

I. Quality of data used.

II. Comparison with other data sources.

III. Evaluation of the procedure.

IV. Possible alternatives.

Most of the attention is focused on manufacturing, with additional comments on the remaining sectors when necessary.

4.1. The Data

The obvious problem in dealing with the manufacturing group is that no regional data are available for 1967. This is unfortunate, since the 1967 national data are compiled from the manufacturing population of 300,000 establishments.** Budgeting problems were cited by Mr. Bill Menth of the Industry Division, U.S. Bureau of the Census, as the dominating factor in the decision not to publish data at the state level [21]. He estimated a probable cost of retrieving 1967 state energy numbers of $40,000 to $60,000 -- possibly much higher, since the raw data file essentially is uncorrected. Given this high cost, it is advisable to move instead toward improving the usability of contemporary data. The regional estimates in this report are adequate for static analyses of the 1967 energy picture. These data also can be used as a historical input to dynamic (time dimension) studies.

The 1962 and 1971 data are constructed from the Annual Survey sample of 70,000 establishments [37]. This introduces sampling errors and results in more entries being withheld due to disclosure problems. However, according to Mr. Menth, the Annual Survey fuel data often are more accurate than the Census data. The respondents in the sample fill out the questionnaire (Form MA-100) annually. The others are required only to complete more complex forms once every four or five years, which combined with personnel turnover generates considerable confusion and error in filling out the forms.

The energy data from the Annual Survey for 1962 and 1971 are published as part of the 1963 and 1972 Census of Manufactures. This one year lag makes

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* It is not the intent of this report to critique the methods or results in the study from which the national controls are taken.

** 12,000 establishments with 10 or less employees were not surveyed (represent about three percent of value added). Data for these estimates were based on industry averages [36, p. IV].

difficult any attempt at comparison of the energy data with the economic measures presented in the Census. The energy data in the intervening years are less complete. For instance, the 1966 Annual Survey gives partial state-level data on electricity (about one-half in SIC detail). All other fuels are lumped into a single group, measured in dollars.

The accuracy of the energy data used is a key factor to be determined. Standard errors of estimate are given in the 1963 Census for the 1962 dollar cost of coal, fuel oil, gas, and electricity. Mr. Menth stated that these standard errors would serve as good approximations in assessing the accuracy of the respective quantities purchased. With few exceptions, the standard errors for the national controls -- $Q_{ms}(62)$ -- are less than five percent. Standard errors for the state totals rarely exceed ten percent. A considerably greater maximum of thirty percent exists for $Q^{h}_{ms}(62)$. Data usually are not published on occasions where the standard error exceeds 25 percent.

Standard errors of estimate are given in the 1972 Census for the 1971 dollar cost of all fuels, fuel oil, coal, and gas. The major difference from the 1962 data is that entries with large standard errors (up to 90 percent for $Q^{h}_{ms}(71)$) are published. In both 1962 and 1971 the standard errors are very low for the large volume uses.

Due to budgetary constraints, the 1971 state data on electricity are not available.* As noted earlier, these data will be published in the near future. The standard errors for $Q^{h}_{ms}(66)$ for electricity are typically under five percent and only occasionally exceed 15 percent.

No standard errors of estimate are given for the 1967 national energy data, since these data are supposed to represent the manufacturing population rather than a sample. However, other types of error exist which are not explained adequately in SIC group detail. For example, the two-digit SIC group totals for coal, the fuel oils, and gas represent a summation of those three- and four-digit SIC groups published. Data not added in the totals include entries labeled NA (not available) or S (withheld because the figures did not meet publication standards either to avoid disclosure or on the basis of a consistency review). Other SIC groups, present in the 1962 and 1971 data

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* Mr. Wayne MaCaughey stated that these data could not be retrieved from the backup material in time for this publication without considerable additional expense [20].

sets, are omitted. Some missing data are lumped into a catch-all category under the heading, "Fuels, not specified by kind."* The 1962 and 1971 national controls when published include estimates of these missing numbers.

Any attempts to compare the published 1967 national data with data for other years must be approached cautiously. For example, Table 1, "Quantity and Cost of Purchased Fuels used for Heat and Power by Industry Group: 1971, 1967, 1962, 1958, and 1954" [37], presents the data as being comparable over time. In several instances, the 1967 number is a large decline relative to the 1962 to 1971 trend due to the hidden difference in method of totaling.

$Q_{ms}(67)$ is adjusted for this report to attain a consistency of definition with the 1962 and 1971 national totals. Those SIC groups (including two-digit SIC's 23 and 39) for which data are available for 1962 and 1971 and are missing for 1967 are identified. A time-dependent, straight-line interpolation is used to estimate 1967 numbers. These are added into the published $Q_{ms}(67)$. The published and the adjusted data sets are presented in Appendix D for comparison. No adjustment is necessary for electricity, as the two-digit SIC totals include unpublished, detailed data.

A reason commonly given for the method of tabulation and presentation of the 1967 energy data is that the results are more accurate than in previous years. Yet the 1971 format reverts back to the earlier structure, with little comment. In this research, the 1967 data have proven to be difficult to use and to be of minimum flexibility and overall utility.

Mr. Menth cited several valid reasons for selecting two-digit, rather than three-digit, SIC groups in publishing state-level energy data:

1. Sample sizes at the three-digit level often are so small as to be unreliable.
2. The disclosure problem is encountered much more frequently at the three-digit level.
3. The cost of compiling and publishing data at the three-digit level would be much higher.

However, the two-digit SIC group is a level of disaggregation which is fairly limited in its usefulness. There can be a tremendous variation in process

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* This category represents about 17 percent of the estimated total cost of all fuels consumed by manufacturing. An estimated additional 5.5 percent is omitted for industries for which detailed fuels data were not obtained [20,pp. 4-5].

and in energy intensity within an SIC group, in part reflecting inadequacies within the "product similarity" method of classification.

The problem of disclosure is a constant hindrance to research efforts. Disclosure is based on the number of establishments in the group and/or region. While relatively complete coverage of diffuse activities is possible, concentrated sectors (few establishments) prove difficult to study due to disclosure--even though these sectors may be major activities. Hypothetically, it is possible that as an economic sector, no matter how large, moves toward monopoly, no information could be made available to the public. This is a distressing possibility.

The Btu values selected are the best available. Inaccuracies are most likely to exist in the regional coal Btu values. The DFO and RFO Btu values are assumed to be uniform nationally. However, there are several fuel grades within each, with different Btu values. As the fuel mix within each category varies across space, so too could the average Btu value. This applies even more in the case of the RPP's.

XBT^{h}_{mj} is a key measure in disaggregating the two-digit SIC groups. It is felt that this is the best of possible weightings in performing this operation.

The remaining energy-using sectors represent varying degress of data quality. Agricultural energy use data are fairly complete at the state level for the RPP's. However, the data are in dollar values and are incompatible, in terms of years available, with most other sectors. In addition, no breakdown of energy use by farm classification at the state level is published. No indication of the accuracy of the state average price data is given. Only fragmentary information is available for the other energy forms. The agricultural sector is a key component of the economic system and will become even more important. In addition, linkages with other sectors of the economy (both inputs and outputs) are becoming stronger and more complex. Future data sets should become more geared to agriculture's integrated role in the economy.

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* Direct energy data could not be retrieved for all sectors in the national study [13]. In fact, several sectors in the national study are treated as portions of a national residual, in a manner similar to that used in this report for the CASE 4 allocation procedure for manufacturing.

No energy data are available for the forestry and fisheries sectors, even at the national level. However, these sectors are very minor energy users.

The mining sectors are represented fairly well by published 1967, regional energy-use data. The sectors for which no state data are given are minor energy users.

The complete absence of energy-use data in the construction sector is perplexing. This sector is critical to the functioning of the economy and is the foundation for growth in the other sectors. There is little doubt that measurement of energy use in construction would show a high energy intensity. The Census of Construction Industries presently is not suitably structured for retrieval of state-level, energy-use data, since existing regional measures are allocated according to the location of the construction firm, rather than the location of the construction activity [33].

Major energy uses in the transportation sectors yield relatively good state-level data. The major exception is the absence of state data on fuel use by air transportation--a rather surprising development given the finite number of air terminals. Direct data are published by EEI, [12, Table 22s] on sales of electricity for use by railroads and railways (I/O Sectors 65.01 and 65.02). However, the high frequency of zero state values in the EEI source is evidence that this covers use only by electrified locomotion systems and not use for signals, switches, lights, etc. This deficiency should be kept in mind when evaluating the regional patterns of electricity use by rail transportation.

The electric utilities, as might be expected, are the most completely documented energy users in the economy. This portion of the data set is perhaps the most accurate in the report.

Domestic final demand proves to be the most frustrating of all segments of the economy to measure. There is considerable overlap with the commercial sectors. The American Petroleum Institute provides fuel-use data by several "supersectors" but for some reason fails to present residential fuel use. State data on government fuel use (especially with the I/O definitional transfer described at the end of Appendix B) are not available. Considerable improvement is necessary before a comprehensive picture of final demand can be achieved.

4.2 Other Data Sources

There are few other sources for regional data on energy use in manufacturing. Agencies such as the U.S. Bureau of Mines [45], the American Petroleum Institute [4], the American Gas Association [2], and the Edison Electric Institute [12] publish state-level data on energy by "industry."* This term proves difficult to define clearly; it usually includes all activities not thought of as "commercial," "residential," or "transportation." Correlation analysis comparing 1962 and 1971 state totals of fuel use from these sources with data from the Census of Manufactures shows that the two sets of data match very poorly, even when percentage state shares are compared. It was hoped that reasonable estimates of state total use of fuel in 1967 by manufacturing could be arrived at by adapting 1967 versions of these other data sources. Data from professional journals, such as the Oil and Gas Journal, periodically provide fragmentary data which would be of use. However, a time consuming literature search would be involved, and the negligible returns were judged not worth the effort in a large-scale study.

The AGA annually publishes data on large-volume purchases of natural gas by two-digit SIC groups (20 of 31 total sectors) for nine multistate Census regions. It is possible to acquire state-level data, in sector detail from 1971 to the present, at a cost of $150 for each year [11].** However, these data are of limited use, as only a little over half of the total gas purchases are covered by the large-volume purchases. It is not possible to detect the comprehensiveness of coverage from sector to sector. In addition, the AGA covers natural gas sales by gas utilities only.

A potential source briefly investigated for electricity sales to three-digit SIC's was the Federal Reserve Board [22]. In 1973, 12 districts gathered current data of this type. Each district operates autonomously, with different budgets and areas of emphasis. The regional data would have to be obtained from each district. It is unlikely that such data would be very useful in this research.

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* A Penn State study recently released recommends that the U.S. Bureau of Mines provide a more complete and detailed data on coal consumption [28].

** The Bureau of Mines natural gas sales include sales by pipeline companies. The Census definition of gas is even more encompassing.

Industry surveys of major industries, such as iron and steel, aluminum, and petroleum refining, could result in useful data on regional energy consumption and Btu values. By interacting closely with contacts in the various agencies which publish energy data, it often is possible to gain access to more complete and detailed data.* It is possible to work closely with officials in the Bureau of the Census to extract much more data than are generally accessible. By conducting analyses within the Bureau and publishing only the results, the problems of disclosure could be circumvented.

Most data sources covering the various sectors of the economy cite only national totals of fuel use, if any are given at all. Those which also provide state data invariably repeat data from one of the primary sources already used in this report. For example, the data on fuel-use by electric utilities are available in two other publications [12, 23]. Many of the tables in Petroleum Facts and Figures refer to Bureau of Mines publications.

Some partial data exist which are not used in this report. For example, fuel-use data for oil and gas well drilling (SIC 138) belong in the construction industry. Data on petroleum asphalt and road oil from Petroleum Facts and Figures could be defined as going to the construction sector as well. Figures on coke and natural gas used in curing tobacco are published in a special report (Vol. 5, No. 2) in the 1969 Census of Agriculture. The potential exists for recovery of regional data through the application of questionnaires. For example, letters of inquiry to airlines concerning fuel consumption at the major airports could be productive. Data on gas and electricity used in grain drying could be retrieved from industry representatives and farm organizations. However, efforts such as these rapidly increase the cost and time involved in constructing a comprehensive survey. Perhaps these and other partial data sources can be implemented by those seeking to upgrade the quality of energy data for specific sectors, using the estimates contained in this report as a benchmark.

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* For example, fairly complete data could be acquired through cooperation with publishers of the American Iron and Steel Institute's Annual Statistical Report [3].

4.3 Evaluation of Methodology

The procedure described in this report is less than ideal in nature, but the realities of data availability negate any efforts in developing a more straightforward method. Some of the assumptions adopted out of necessity are more rigid than conditions existing within the economic system. For instance, it is assumed that the rate of regional shift in fuel use by sector s from 1962 to 1967 is equivalent to the rate of shift in fuel use by sector s at the national level. It can be argued that this is valid, since most regional shifts are a function of absolute change. This may fail to account for fuel substitution and shifts in the location of existing activity. Yet the procedure does make the rate of regional shift a function of economic change, rather than a linear, time-dependent estimate.* The more rigid stance adopted in calculations for CASEs 2, 3, and 4 is not very damaging when their small share of the national total is considered.

The CASE 4 allocation scheme may result in a more diffuse regional disaggregation of each fuel than actually exists. However, the precautions briefly described in the discussion surrounding Equation 2.1-4a (see footnote) serve to minimize this deficiency.

The use of a dollars output weight in allocating some sector control totals to the state level was accepted only as a last resort.** Unfortunately, the fuel mix must be assumed to be uniform over space--a condition which is far from reality. An attempt was made to improve this feature by excluding certain states in the allocation of gas and coal, as described in Section 2.1.7. However, no attempt was made to compensate by increasing the use of electricity and RPP's in those states. Data for such sectors should be used only to gain an idea of the regional variations in magnitude of total fuels used

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* A few problems in the procedure were encountered when $FRAC_{ms}$ was a large, positive number. Any SIC experiencing an absolute decline in a given state, while expanding rapidly at the national level, conceivably could end up showing a negative fuel use for 1967. The few instances where this has occurred were dealt with on an individual basis.

** Even the national controls for many of these same sectors were estimated as shares of a national residual--allocated by a dollars output weighting [13].

by those sectors. Fortunately, the sectors for which this procedure had to be used consume only 11.8 percent of all energy consumed in the United States.

Checks of final tabulations indicate E^h_{mj} is very close to what would be expected, especially for the dominant states in each energy-using sector. It appears that this procedure tends to over-allocate slightly to the states with small volumes of energy use.

A final test applied to all energy matrices involved the requirement that E^h_{mj} must equal zero whenever X^h_j equals zero. This was designed to eliminate any data inconsistencies where a positive energy value could be shown where no sector exists, particularly in the first three CASEs of the manufacturing allocation scheme. In the few instances where exceptions to this rule were discovered, original data sources were reviewed to determine the source of the error, and the data set was corrected.

Problems with the 1967 national controls were discussed earlier. Through examination of the CASE 2 and CASE 3 residuals, there is evidence that the national controls for 1962 and 1971 are not consistent in content--particularly for some of the small sectors. For example:

$Q_{ms}(62)$	$Q_{ms}(71)$
$-\sum_h Q^h_{ms}(62)h\varepsilon$CASE 1	$-\sum_h Q^h_{ms}(71)h\varepsilon$CASE 1
$-\sum_h Q^h_{ms}(62)h\varepsilon$CASE 2	$-\sum_h Q^h_{ms}(71)h\varepsilon$CASE 3
$Q_{ms}(62)$ residual	$Q_{ms}(71)$ residual

The summed CASE 2 and CASE 3 entries are components of the residuals (in addition to CASE 4) of the opposite years (1971 and 1962, respectively). Yet in coal use in SIC 23, as well as others, a poor relationship is found. The $Q_{ms}(71)$ residual does not provide for states showing significant coal use in 1962 with no 1971 end point (CASE 2). This phenomenon occurs in both directions.* For several small sectors, it resulted in over-allocation of the national control in the initial run. Adjustments were made to offset this problem.

Most energy data used in this research are sales or purchases data.

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* A few such occurrences undoubtedly are due to sudden shifts in energy use. However, some may be due to inconsistencies in data management by the Bureau of the Census.

Given the state of the art in data availability, it is impossible to determine adjustments which occur in fuel inventories at the level of sector and regional disaggregation used in this report. Thus, it must be assumed that consumption equals purchases, with zero inventory changes. Except in isolated cases, this should not affect the results too much. Most establishments have had only a small percentage of annual use as a storage capacity.

It is unfortunate that interpolation occurred for fuel oils, rather than DFO and RFO separately. These two fuels often exhibit opposite trends at the national level (ΔQ_{ms}). Much of this is cancelled out when combining the two fuels.

Several entries in Fuels and Electric Energy Consumed are not included in the allocation procedure. Two such entries are "Other Fuels" and "Fuels, nsk." (not specified by kind). The national study assigns a Bureau of the Census Btu value to each [13]. The former category is included with RPP's ; and the latter category is subdivided among RPP's, coal, and gas, based on their share in each sector. No attempt is made to do the same in this research, since the assigned Btu values could vary greatly from state to state. However, since the national controls do contain these data, they are allocated to the states in the final phase of this research.

The "Generated Less Sold" category of electricity is not included in electricity use, since to do so would be to double count the purchased fuels used to generate that electricity in each manufacturing sector. The same reason applies to the exclusion of purchases of coke in SIC 33.

Two significant differences in definitions used in this study and the national study exist. Approximately 115 trillion Btu's of trucking fuel (diesel) use are transferred out of I/O Sector 65.03 to other sectors (primarily manufacturing) in the national study [13].* No equitable means of doing this in the state allocation procedure is available, so this fuel use is kept in the motor freight transporta-

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* The national controls (E_{mj}) used in this report are data developed in the national study prior to trucking fuel use transfers. The approach taken in this report of not transferring trucking fuel use may be at variance with some techniques in handling secondary products in I/O theory. However, this method is consistent with fuel use definitions in the Census of Manufactures, etc.

tion sector. For most manufacturing sectors, this involves less than five percent of the RPP's used. Those sectors for which the adjustment represents more than 20 percent are:*

19 - Miscellaneous Textile Products (1.23)
20 - Lumber & Wood Prods, Except Containers (1.23)
21 - Wooden Containers (1.4)
39 - Metal Containers (1.22)
44 - Farm Machinery (1.41)

The second definitional difference is "Final Demand." This is discussed adequately in Section 2.9.

4.4 Alternative Approaches

Several alternative approaches were considered, tested, and then rejected during the evolution of the current procedure. Straight-line interpolation of state shares of fuel m in sector s as a function of time was attempted. This means that five-ninths of each 1962-to-1971 shift occurred between 1962 and 1967. On examining the changes occurring in fuel use at the national level, it was discovered that these changes occurring over the same time spans are more related to trends in the economy and in technology than to the passage of time. This indicates that by considerable magnification of effort, an economic surrogate (employment, dollars output) might be selected, and shifts in energy use correlated with locational shifts measured by the surrogate.

The state is used as the regional unit, since most policy decisions are made with this political subdivision in mind. It is infeasible to obtain energy data below the state level. Yet states rarely represent a functional economic unit. Most urban-industrial complexes overlap into several states. Perhaps future attempts at data organization should be based on the Department of Commerce, Bureau of Economic Analysis concept of node--hinterland (primarily SMSA structure) [15].

Considerable work was focused on deriving state-level control numbers on manufacturing use of each energy form for 1967. Failure to establish reliable data is described briefly in Section 4.1.2.

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* Multiply national control by number in parentheses to arrive at control including trucking fuel.

Interpolation procedures were also developed, but the results were used only in early research to compare with $Q^h_{ms}(67)$. If accurate 1967 state totals could be developed, then a two-dimensional control would be established. An earlier version of the fuel allocation procedure entailed control at the state level, followed by control at the national sector level. A simultaneous, iterative procedure would be even more appropriate.

BT_{mj}, the Btu's per dollar output measure, is used as a measure of energy intensity in the allocation procedure (Equation 2.1-4b). It was thought initially that BT_j (all fuels) would be more appropriate, given the regional variations in fuel mix. However, tests prove that this results in less accurate allocation.

X^h_j, the dollars output measure, is used as a measure of size in the allocation procedure. This can be divided into two components:

1. Value added by manufacture.
2. Cost of materials.

The first is more a measure of the value added by a given manufacturing sector due to inputs of labor and technology in changing the form of the product. Technology implies energy use. Yet evidence points to an energy-labor trade-off in most sectors [19]. Identification of energy-labor ratios and an assumption of national uniformity in such a ratio would preclude use of value added as a replacement for X^h_j.

The cost of materials (includes materials, supplies, fuels, electric energy, etc.) would appear to be a better measure of X^h_j in achieving the goals of this research. This measure actually is more representative of the total -- direct and indirect -- energy requirements of a manufacturing sector, since the cost of energy to the sectors providing the materials is embodied within their output price. This double-counting, while conceivably useful in a regional allocation scheme of national totals resulting from an I/O matrix inversion, diminishes the utility of the cost of materials in this research. The use of employment data is believed to be the least desirable of potential measures of size.

Both value added and the cost of materials would have to be retrieved from the Census and restructured to fit the I/O industry

format--a formidable task. Employment data are available in a format identical to X_j^h [14].

It would be desirable to formulate E_j^h -- the total Btu's of energy used by sector j in state h in 1967. Electricity presents the major obstacle to accomplishing this. This energy form is composed indirectly of Btu's of the fossil fuels. A conversion can be implimented within the electric utility sector at the state level, but this knowledge cannot be transferred to the electricity-consuming sectors until data on interstate flows of electricity are obtained.

It is recognized that the Btu measure is not the most desirable unit of energy. The varied conversion factors attest to the difficulty of relating the Btu values to the commonly used physical measures. Arguments could be made for using kilowatt-hour equivalents (or joules or ergs). However, the national study employes the Btu value, and this research is designed to complement that research.

4.5 Conclusion

In spite of the many problems acknowledged in this research, it is believed that the results are of sufficient accuracy to allow the policy maker at the national level to understand the major regional features of the energy dimension of the U.S. economy. In addition, researchers examining energy problems in one or more states (or sectors) may be able to use this data base as a reference point. It should be possible to improve the accuracy of portions of the data in such concentrated studies.

These results represent but a first of many steps toward a clearer understanding of the energy system. With this in mind, the report first presents the procedure so that it may be reproduced and then probes for the major shortcomings. Regional analysis, beyond the scope of this report, will follow in an ensuing report.

Although potentially 1967 could have been one of the best years for energy data, it has proven to be worse than others. Published data are very incomplete, and it is difficult to compare different sources. Hopefully, this poor state of the art in regional and national energy data has been a result of higher priorities existing in other areas, with relatively scarce research resources available. If so, the quality and depth of contemporary energy data will show dramatic improvement.

5. RECOMMENDATIONS

This body of 1967 regional energy-use data is the culmination of many months of research and preparation. The results are reasonably accurate and undoubtedly will be referred to by others. The frustrating experience faced by all researchers of taking two steps forward and sliding one step back perhaps was beneficial, in that basic deficiencies in the existing data base and in the published body of energy research became painfully obvious. The lessons accumulated should aid in guiding future efforts.

There is a distinct lack of coordination evident when comparing the various energy data sources. A central agency, such as the Federal Energy Administration, should be responsive to data needs and should serve as a clearing-house and guide of data gathering efforts by government agencies at all levels and by organizations representing the energy sectors. State agencies, such as the Florida Energy Commission, must have guidelines on acceptable sector definitions, etc., so that their results may be compared to other regional data.* Perhaps the regional FEA offices could serve as multistate branches.

The published Census energy data are inadequate for most applications. Attempts to retrieve unpublished regional energy data and data in different formats have shown that the structure of the original data base is extremely inflexible, in terms of adaptation to different needs. Corrected data should be placed on file tapes and should be coded carefully to a regional hierarchy for ready access at a minimum cost in different forms. The increment in initial cost of preparation should be returned many times in increased public service. The goal of the Bureau of the Census should be to make the

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* Several recent events seem to indicate that moves are being made in these directions. For example, the FEA and Purdue University co-sponsored a "National Energy Data Workshop" (October, 1972) for energy officials at the state level, to promote a working dialogue on energy data issues between the Federal and State Governments. In January, 1975 publishers and processors of technical energy information from government and the private sector met to exchange ideas at a conference sponsored by FEA.

raw data readily accessible to as many users as possible. If manpower is a problem, the aid of researchers in academic institutions who perennially request certain data should be enlisted.

The publication of energy data for various sectors in different years is an inhibiting factor in any comprehensive research. It is understandable that the cost to gather data annually for all sectors, as well as manpower for compilation, would be prohibitive. However, even if publication for all sectors in the same year is not possible, at least the survey forms could be sent out all at once. Then the information could be passed on to the public as it is prepared.

The time lag between the actual survey and publication in some instances involves several years. This destroys the utility of the data for many types of research. Perhaps nothing can be done about this problem. Hopefully, the 1972 national input-output matrix will be more timely than its 1967 predecessor (used in structuring the 1967 national energy matrix [13]).

Several directions of analysis have become apparent. Future data structuring activities should move to 1971 and beyond. The 1967 data are adequate as inputs to trend analyses, etc., and it is imperative that a more recent picture of the energy dimension of the economy be constructed. Efforts should concentrate on a detailed breakdown (four-digit SIC's) of the major fuel-using manufacturing sectors. This does not mean that the minor fuel users should be ignored. The linkages defined by technical coefficients in the input-output matrix illustrate that interruptions of fuel to seemingly insignificant sectors could disrupt the entire economy.

The 1967 energy data base presents characteristics of fuel use at one point in time. Care must be taken not to rely too much on this static picture in analyzing the dynamics of impact, expansion, etc. The marginal concept must be recognized when studying changing emphases through time.

Investigation of the forces underlying spatial shifts in fuel use and structure should be conducted. Such causal variables could be used in the development of forecasting models. One key dimension is the identification and understanding of regional variations in the fuel price mechanism. Combining this with logistics capabilities

(and costs of converting the physical plant), it would be possible to assess regional variations in fuel substitution alternatives and costs (given environmental concern, parameters such as sulfur content, etc., could be added to such a study).

It is desirable to have a total Btu measure of all energy used by sector j in state h (E_j^h). Electricity as a secondary form negates such a possibility. The demand for electricity by the economic sectors creates an indirect demand for the fossil fuels. Coal which used to be burned in industrial plants is now burned in power plants and transformed into electricity, at about a 30 percent Btu efficiency. Therefore, it is appropriate in measuring the total fossil fuel requirements (oil, gas, coal) of each sector in each state to trace each sector's demand for electricity back to the method of generation. The state average fuel mix used in power plants could be used (factoring out nuclear power and hydropower). However, considerable interstate transmission of electricity occurs, and information on the nature of the flows is not readily accessible. If such data could be retrieved, the true energy cost of goods and services, as it varies at the state level, would be measurable.*

Energy policies which alter the economic outlook of one sector also affect to some extent other sectors (input-output theory and multiplier effect). This same concept applies to direct impacts in one state being felt indirectly in other states. The need for the development of a good multi-regional input-output (MRIO) model seems obvious. At present great problems exist even with the development of dollar MRIO models. Two basic deficiencies presently limit the utility of MRIO models:**

1. Minimum data exist on interregional flows. An accurate origin-destination matrix must be developed.
2. Practically no data on regional technical coefficients exist. At present, national averages are used.

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* An assessment of the existing data base and a survey of the finite population of utilities should make possible achievement of this task.

** The U.S. Department of Commerce, Bureau of Economic Analysis is initiating an ambitious project in which an energy MRIO model for 1972 will evolve. They feel data have improved enough to overcome the basic deficiencies cited above [15].

Development of Btu per dollar output coefficients at the state level -- even for two-digit SIC's -- would aid in analysis of regional variations in the energy cost of goods and services.

The preceding recommendations are the direct result of experiences during this research. By no means are they meant to represent the range of possibilities in studying the energy phase of the U.S. economy. Hopefully, they will enter the stream of current thought on this vital issue, to eventually germinate and bear useful results.

APPENDIX A

DEFINITIONS OF SYMBOLS AND ABBREVIATIONS

SYMBOLS

Major Script Designations: h - state

j - sector, 98 level of detail

s - sector, (jεs)

m - fuel type

B_m - average Btu's per physical unit of fuel m in the U.S. in 1967.

B^h_m - average Btu's per physical unit of fuel m in state h in 1967.

B^h_{mj} - the conversion factor in Btu's per physical unit of fuel m in sector j and state h.

BT_{ms} - the national average Btu's of fuel m per $ output used by sector s in 1967.

E_{ms} - Btu's of fuel m required directly by sector s (jεs) in the U.S. in 1967 (Equation 2.1-7b).

E^h_{ms} - Btu's of fuel m required directly by sector s in state h in 1967 (Equation 2.1-7a).

E_{mj} - Btu's of fuel required directly by sector j in the U.S. in 1967.

E^h_{mj} - Btu's of fuel m required directly in sector j and state h in 1967 of each fuel m.

EE^h_{ms} - Btu's of petroleum product m consumed by agriculture in state h in 1967 (Equation 2.2-3).

EM^h_{ms} - Btu's of fuel m required directly by sector s in state h in 1967 (Equation 2.1-6).

EM^h_{mj} - Btu's of fuel m required directly by sector j in state h in 1967 (Equation 2.1-8a).

EN_{ms} - Btu's of fuel m required directly by sector s in the U.S. in 1967 (Equation 2.1-5b).

EN^h_{ms} - Btu's of fuel m required directly by sector s in state h in 1967 (Equation 2.1-5a).

$FRA62_{ms}$ - the percentage change in fuel m purchases by sector s in the U.S. from 1962 to 1967.

$FRA71_{ms}$ - the percentage change in fuel m purchases by sector s in the U.S. from 1971 back to 1967.

$FRAC_{ms}$ - the change in the use of fuel m by sector s (ΔQ_{ms}) from 1962 to 1967, as a proportion of the change in use $_{ms}$ from 1962 to 1971 (Equation 2.1-1b).

$P^{h}_{ms}(64)$
(69) - average physical unit per dollar paid by farmers for petroleum product m in state h in the year indicated.

POP^{h} - population in state h in 1967.

Q^{h}_{gs} - quantity in cubic feet used by the gas utilities industry for pipeline fuel.

$Q_{ms}(62)$
(67)
(71) - physical units (tons, barrels, etc.) of fuel m purchased by sector s in the U.S. in the indicated year.

$Q^{h}_{ms}(62)$
(67)
(71) - physical units (tons, barrels, etc.) of fuel m purchased by sector s in state h in the indicated year.

Q^{h}_{mj} - the quantity in physical units (tons, barrels, etc.) of fuel m purchased by sector j in state h in 1967. Fuel use is assumed to be synonymous with purchases.

$QQ_{ms}(67)$
(71) - the quantity in barrels of fuel m = fuel oil (DFO + RFO).

$QQ^{h}_{ms}(62)$
(67)
(71) - the quantity in barrels of fuel m = fuel oil (DFO + RFO) purchased by sector s in state h in 1967 (Section 2.1).

$QQ^{h}_{ms}(64)$
(67)
(69) - the quantity in physical units of petroleum product m used in farm business operations in state h in the year indicated (Section 2.2).

$V^{h}_{ms}(64)$
(69) - dollars spent by farmers for petroleum product m in state h in 1964(69).

X_s^h - the 1967 $ output in sector s, state h.

XBT_{ms}^h - the Btu's of fuel m required by sector s in the U.S. in 1967--the product of X_s^h and BT_{ms} (Equation 2.1-4b).

ABBREVIATIONS

API - American Petroleum Institute

Btu - British thermal unit

DFO - Distillate Fuel Oil

I/O - Input-Output

RFO - Residual Fuel Oil

RPP's - Refined Petroleum Products

SIC - Standard Industrial Classification

A P P E N D I X B

INDUSTRY CLASSIFICATION SYSTEM*

Industry Number and Title	Related SIC Codes
AGRICULTURE, FORESTRY & FISHERIES	
01-Livestock & Livestock Products----	013, pt. 014, pt. 0193, pt. 02, pt. 0729
02-Other Agricultural Products-------	011, 012, pt. 014, pt. 0192, pt. 02
03-Forestry & Fishery Products-------	074, 081, 082, 084, 086, 091
04-Agricultural, Forestry, & Fishery Services----------	071, 0723, pt. 0729, 073, 085, 098
MINING	
05-Iron & Ferroalloy Ores Mining-----	1011, 106
06-Nonferrous Metal Ores Mining------	102, 103, 104, 105, 108, 109
07-Coal Mining----------	11, 12
08-Crude Petroleum & Natural Gas-----	1311, 1321, 138
09-Stone & Clay Mining & Quarrying---	141, 142, 144, 145, 148, 149
10-Chemicals & Fertilizer Mineral Mining----------	147
CONSTRUCTION	
11-New Construction----------	pt. 15, pt. 16, pt. 17, pt. 6561
12-Maintenance & Repair Construction-	pt. 15, pt. 16, pt. 17
MANUFACTURING	
13-Ordnance & Accessories----------	19
14-Food & Kindred Products----------	20
15-Tobacco Manufactures----------	21
16-Broad & Narrow Fabrics, Yarn & Thread Mills----------	221 thru 226, 228
17-Misc. Textile Goods & Floor Coverings----------	227,229
18-Apparel----------	23(exc. 239)
19-Misc. Fabricated Textile Products-	239
20-Lumber & Wood Products, Except Containers----------	24(exc. 244)
21-Wooden Containers----------	244

* The 1963 definitions in [44] are identical to the 1967 definitions, with the exception of changes in definition of SIC content, as given in [34, Vol. II, App. C].

Industry Number and Title	Related SIC Codes
MANUFACTURING (Cont.)	
22-Household Furniture	251
23-Other Furniture & Fixtures	25(exc. 251)
24-Paper & Allied Products, Except Containers & Boxes	26(exc. 265)
25-Paperboard Containers & Boxes	265
26-Printing & Publishing	27
27-Chemicals & Selected Chemical Products	281, 286, 287, 289
28-Plastics & Synthetic Materials	282
29-Drugs, Cleaning & Toilet Preparations	283, 284
30-Paints & Allied Products	285
31-Petroleum Refining & Related Industries	29
31.01-Petroleum Refining & Products	2911, 299
31.02-Paving Mixtures & Blocks	2951
31.03-Asphalt Felts & Coatings	2952
32-Rubber & Misc. Plastics Products	30
33-Leather Tanning & Industrial Leather Products	311, 312
34-Footwear & Other Leather Products	313, 314, 315, 316, 317, 319
35-Glass & Glass Products	321, 322, 323
36-Stone & Clay Products	324, 325, 326, 327, 328, 329
37-Primary Iron & Steel Mfg.	331, 332, 3391, 3399
38-Primary Nonferrous Metals Mfg.	333, 334, 335, 336, 3392
39-Metal Containers	341, 3491
40-Heating, Plumbing & Fabricated Structural Metal Products	343, 344
41-Screw Machine Products, Bolts, Nuts, etc. & Metal Stampings	345, 346
42-Other Fabricated Metal Products	342, 347, 348, 3492 thru 3499
43-Engines & Turbines	351
44-Farm Machinery	352
45-Construction, Mining & Oil Field Machinery & Equipment	3531 thru 3533
46-Materials Handling Machinery & Equipment	3534 thru 3537
47-Metalworking Machinery & Equipment	354
48-Special Industry & Equipment	355
49-General Industrial Machinery & Equipment	356
50-Machine Shop Products	359
51-Office, Computing & Accounting Machines	357
52-Service Industry Machines	358

Industry Number and Title	Related SIC Codes
MANUFACTURING (Cont.)	
53-Electric Transmission & Distribution Equipment & Electrical Industrial Apparatus	361, 362
54-Household Appliances	363
55-Electric Wiring & Lighting Equipment	364
56-Radio, Television & Communication Equipment	365, 366
57-Electronic Components & Accessories	367
58-Miscellaneous Electrical Machinery, Equipment & Supplies	369
59-Motor Vehicles & Equipment	371
60-Aircraft & Parts	372
61-Other Transportation Equipment	373 thru 379
62-Professional, Scientific & Controlling Instruments & Supplies	381, 382, 384, 387
63-Optical, Ophthalmic & Photographic Equipment & Supplies	383, 385, 386
64-Miscellaneous Manufacturing	39(exc. 39996)
TRANSPORTATION	
65-Transportation & Warehousing	40 thru 47
65.01-Railroads & Related Svcs.	40, 474
65.02-Local, Suburban & Interurban Highway Passenger Transp.	41
65.03-Motor Freight Transportation & Warehousing	42, 473
65.04-Water Transportation	44
65.05-Air Transportation	45
65.06-Pipelines, Except Natural Gas	46
65.07-Transportation Services	47(exc. 473, 474)
COMMUNICATIONS	
66-Communications, Except Radio & Television Broadcasting	48(exc. 483)
67-Radio & TV Broadcasting	483
ELECTRIC, GAS & SANITARY SERVICES	
68-Electric, Gas, Water & Sanitary Services	49
68.01-Electric Utilities	491, pt. 493
68.02-Gas Utilities	492, pt. 493
68.03-Water & Sanitary Services	494 thru 497, pt. 493

Industry Number and Title	Related SIC Codes
SERVICES, ETC.	
69-Wholesale & Retail Trade----------	50(exc. manufacturers' sales offices), 52 thru 59, 7396
70-Finance & Insurance----------	60 thru 64, 67
71-Real Estate & Rental----------	65(exc. pt. 6561), 66
72-Hotels & Lodging Places; Personal & Repair Services, exc. automobile repair----------	72, 76(exc. 7694 & pt. 7699)
73-Business Services----------	73(exc. 7396), 7694, pt. 7699, 81, 89(exc. 8921)
74-Research & Development----------	
75-Automobile Repair & Services------	75
76-Amusements----------	78, 79
77-Medical & Educational Services & Nonprofit Organizations-------	80, 82, 84, 86, 89, 0722
* 78-Federal Government Enterprises----	
79-State & Local Government Enterprises----------	
80-Gross Imports of Goods & Services-	
81-Business Travel, Entertainment & Gifts----------	
82-Office Supplies----------	
83-Scrap, Used & Secondhand Goods----	
84-Government Industry----------	
85-Rest of the World Industry--------	
86-Household Industry----------	
87-Inventory Valuation Adjustment----	
DOMESTIC FINAL DEMAND	
88-Domestic Final Demand----------	

* Federal and state and local government enterprises which are comparable to those of private establishments are transferred to the appropriate private industries for distribution (ex.-Federally owned electric utilities). Those for which there are no private counterparts are distributed directly to consuming industries (ex.-military fuel use as a part of final demand). 25% of I/O 78 and 85% of I/O 79 are transferred out. The Post Office Department comprises most of the remainder of I/O 78.

Note: Three specific changes in I/O definition are made for this report, in order to move SIC's to I/O sectors with similar SIC codes:

a. SIC 138 included in I/O Sector 08 instead of I/O Sector 11.
b. SIC 229 and SIC 39996 incluced in I/O Sectors 16 and 64, respectively, instead of I/O Sector 18.
c. SIC 28195 included in I/O Sector 27 instead of I/O Sector 38. No means exists for allocating energy use by these SIC's to the state level unless these shifts are made.

A P P E N D I X C

SIC'S* AND RELATED I/O SECTORS

SIC #	SIC Label	Related I/O Sectors
20-	Food and Kindred Products	14
21-	Tobacco Manufactures	15
22-	Textile Mill Products	16, 17
23-	Apparel and Other Textile Products	18**, 19
24-	Lumber and Wood Products	20, 21
25-	Furniture and Fixtures	22, 23
26-	Paper and Allied Products	24, 25
27-	Printing and Publishing	26
28-	Chemicals and Allied Products	27 thru 30
29-	Petroleum and Coal Products	31.01 thru 31.03
30-	Rubber and Plastics Products, n.e.c.	32
31-	Leather and Leather Products	33, 34
32-	Stone, Clay, and Glass Products	35, 36
33-	Primary Metal Industries	37, 38#
34-	Fabricated Metal Products	39 thru 42
35-	Machinery, Except Electrical	43 thru 52
36-	Electrical Equipment and Supplies	53 thru 58
37-	Transportation Equipment	59 thru 61
38-	Instruments and Related Products	62, 63
39-	Miscellaneous Manufacturing Industries, including 19-Ordnance and Accessories	13##, 64

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* SIC = Standard Industrial Classification, Census of Manufactures.

** SIC 225 and SIC 39996 are included in I/O Sector 18. However, for this research, these two SIC's are transferred to I/O Sectors 16 and 64, respectively.

\# SIC 28195 is included in I/O Sector 38. This SIC is transferred to I/O Sector 27.

No reference is made to SIC 19 in the 1971 regional data [37]. However, Mr. Menth [21] stated that SIC 19 is included with SIC 39 in this source.

A P P E N D I X D

GAS*

SIC	CASE 1	CASE 2,3	CASE 4	Adjusted** $Q_{ms}(67)$	Published** $Q_{ms}(67)$
20	95.4%	3.9%	0.7%	352194	346000
21	81.6%	2.7%	15.7%	3000	2674
22	93.0%	6.4%	0.6%	64466	56000
23	53.0%	34.2%	12.8%	11066	(N/A)
24	64.2%	25.0%	10.8%	56920	54000
25	66.5%	26.4%	7.1%	10699	2000
26	94.5%	1.4%	4.1%	354213	351000
27	65.2%	19.1%	15.7%	18009	15000
28	93.3%	3.6%	3.1%	1209275	1204000
29	93.8%	4.9%	1.3%	1122434	1122000
30	66.9%	21.4%	11.7%	42617	42000
31	39.1%	34.3%	26.6%	7700	4000
32	85.6%	10.4%	4.0%	624385	624000
33	90.4%	8.4%	1.2%	1141586	1142000
34	95.6%	3.4%	1.0%	107737	104000
35	84.5%	13.6%	1.9%	85581	80000
36	89.0%	8.9%	2.1%	58006	48000
37	96.6%	2.0%	1.4$	108604	107000
38	69.0%	26.7%	4.3%	10439	3000
39	56.5%	27.2%	16.3%	30215	(N/A)
U.S.	91.0%	6.5%	2.5%	5418820	5307000

N/A - Not Available.

* Pertaining to discussion in Sections 2.1.1 and 2.4.

** Million cubic feet.

COAL*

SIC	CASE 1	CASE 2,3	CASE 4	Adjusted** $Q_{ms}(67)$	Published** $Q_{ms}(67)$
20	97.5%	2.4%	0.1%	6615	6600
21	98.3%	1.7%	0.0%	358	334
22	98.5%	1.1%	0.4%	2219	1976
23	61.5%	38.5%	0.0%	166	(N/A)
24	10.1%	48.1%	41.8%	305	267
25	93.8%	6.2%	0.0%	277	198
26	96.0%	4.0%	0.0%	12944	12916
27	81.8%	18.2%	0.0%	33	33
28	93.3%	6.5%	0.2%	21189	1106
29	99.1%	0.2%	0.7%	892	892
30	91.2%	8.3%	0.5%	1960	1933
31	58.8%	19.2%	22.0%	318	278
32	86.3%	7.4%	6.3%	11811	11797
33	83.7%	16.2%	0.1%	9883	9883
34	96.8%	2.5%	0.7%	1018	1018
35	99.3%	0.3%	0.4%	1722	1665
36	98.2%	1.8%	0.0%	1026	772
37	97.5%	2.5%	0.0%	3438	3432
38	97.3%	2.5%	0.2%	634	0
39	59.9%	18.2%	21.9%	365	(N/A)
U.S.	92.0%	7.0%	1.0%	77173	75100

N/A - Not Available.

* Pertaining to discussion in Sections 2.1.2 and 2.4.

** Thousand Tons.

ELECTRICITY*

SIC	CASE 1	CASE 2,3	CASE 4	$Q_{ms}(67)$**
20	53.0%	44.0%	3.0%	24401
21	0.0%	90.5%	9.5%	737
22	61.6%	36.6%	1.8%	20264
23	0.0%	92.5%	7.5%	3595
24	0.0%	93.5%	6.5%	7297
25	0.0%	87.6%	12.4%	2474
26	34.1%	63.8%	2.1%	25858
27	0.0%	86.8%	13.2%	5817
28	67.6%	30.0%	2.4%	95414
29	40.8%	59.2%	0.0%	18186
30	14.7%	62.8%	22.5%	10184
31	0.0%	77.2%	22.8%	1288
32	28.8%	58.4%	12.8%	19570
33	65.8%	26.9%	7.3%	109469
34	48.5%	48.4%	3.1%	14694
35	44.8%	50.4%	4.8%	16659
36	19.3%	71.4%	9.3%	19013
37	50.8%	46.0%	3.2%	23468
38	0.0%	77.8%	22.2%	2493
39	0.0%	78.9%	21.1%	6583
U.S.	50.0%	45.0%	5.0%	427464

N/A - Not Available.

* Pertaining to discussion in Sections 2.1.3 and 2.4.

** Million Kilowatt-hours. Published same as adjusted.

FUEL OILS*

SIC	CASE 1	CASE 2,3	CASE 4	Adjusted $Q_{ms}(67)$**	Published $Q_{ms}(67)$**	DFO Adjusted $Q_{ms}(67)$**	RFO Adjusted $Q_{ms}(67)$**
20	89.8%	10.1%	0.1%	20869	17534	8809	12060
21	75.8%	14.2%	10.0%	464	422	264	200
22	86.0%	10.8%	3.2%	10615	6891	3400	7215
23	72.5%	27.5%	0.0%	1150	(N/A)	800	350
24	60.7%	20.1%	19.2%	3723	3583	2567	1156
25	78.2%	9.8%	12.0%	901	251	473	428
26	93.7%	6.1%	0.2%	42276	41899	10842	31434
27	74.4%	18.2%	7.4%	1400	1131	650	750
28	92.6%	7.1%	0.3%	21133	20563	8406	12727
29	63.3%	28.6%	8.1%	10079	10079	1769	8310
30	60.5%	38.6%	0.9%	3722	3711	1276	2446
31	80.9%	15.9%	3.2%	1400	1369	399	1001
32	58.0%	40.6%	1.4%	15570	12030	6968	8602
33	93.5%	4.0%	2.5%	40713	40712	16830	23883
34	90.0%	8.7%	1.3%	4797	4567	2565	2232
35	94.1%	5.9%	0.0%	6623	5207	2825	3798
36	91.0%	7.6%	1.4%	5200	2570	2088	3112
37	90.8%	4.9%	4.3%	6895	5857	2659	4236
38	84.1%	14.3%	1.6%	1643	238	593	1050
39	86.3%	8.7%	5.0%	2750	(N/A)	1100	1650
U.S.	86.0%	12.0%	2.0%	201923	178613	75283	126640

N/A - Not Available.

* Pertaining to discussion in Sections 2.1.4 and 2.1.

** Thousand 42-gallon barrels.

A P P E N D I X E

$$FRAC_{ms} = \frac{Q_{ms}(67) - Q_{ms}(62)}{Q_{ms}(71) - Q_{ms}(62)} \quad *$$

FUEL

SIC	GAS	COAL	ELECTRICITY	FO's
20	0.1479	0.4974	1.1831	0.6241
21	0.4304	-0.4919	1.2249	0.2727
22	0.2392	0.5528	1.4292	0.5330
23	0.5556	0.1345	1.4511	0.5000
24	0.6960	0.1357	1.4062	-0.0474
25	0.1943	0.7912	1.3762	0.3276
26	0.4205	0.3892	1.2378	0.3336
27	0.0075	0.8532	1.7305	0.3333
28	0.6615	0.3300	2.8103	0.0905
29	0.4485	0.0229	1.7828	0.0617
30	0.2540	0.3461	0.8740	-0.0768
31	0.7004	0.2986	1.3059	0.3263
32	0.4495	-0.1822	0.5558	0.3310
33	1.2404	0.8960	1.3434	0.5914
34	0.2336	0.0684	1.7400	1.0258
35	0.1362	0.5253	1.3732	0.6113
36	0.0775	0.5624	1.4054	0.4848
37	0.5170	0.3392	1.0700	0.4463
38	0.1863	0.5000	1.5643	0.5642
39,19	0.5556	0.5054	1.8721	0.2062
U.S.	0.5176	0.4369	1.2850	0.1282

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* Equation 2.1-1b. Used in Equation 2.1-1a, CASE 1 derivation of $Q^{h}_{ms}(67)$.

A P P E N D I X F

$$FRA62_{ms} = \frac{Q_{ms}(67) - \sum_{h \in CASE\ 1} Q^{h}_{ms}(67)}{Q_{ms}(62) - \sum_{h \in CASE\ 1} Q^{h}_{ms}(62)} \quad *$$

$$FRA71_{ms} = \frac{Q_{ms}(67) - \sum_{h \in CASE\ 1} Q^{h}_{ms}(67)}{Q_{ms}(71) - \sum_{h \in CASE\ 1} Q^{h}_{ms}(71)} \quad **$$

	GAS		COAL		ELECTRICITY		FUEL OILS	
SIC	FRA62	FRA71	FRA62	FRA71	FRA62	FRA71	FRA62	FRA71
20	1.0492	0.7868	0.8018	1.3287	1.2880	1.0358	1.0974	0.9493
21	1.4744	0.7014	0.8953	0.7121	1.8525	1.0923	1.0917	0.8172
22	1.0003	0.9982	0.5396	3.2689	1.3926	1.0925	1.7174	1.5270
23	1.6274	0.7644	1.0830	0.6698	1.6209	1.1352	0.9123	1.1064
24	2.5646	0.7897	0.9048	3.0194	1.6266	1.1252	0.9356	0.3971
25	1.1471	0.6526	0.4526	1.4577	1.4620	1.0946	1.0429	0.9222
26	1.2005	0.8128	0.8868	1.4264	1.5905	1.0768	1.4450	0.6194
27	1.0074	0.5053	0.1468	10.0292	1.4492	1.1506	1.0305	0.9440
28	8.3404	0.6892	0.9421	1.1434	0.9302	0.9539	1.1270	0.4695
29	1.2133	0.8224	--	0.0726	1.3940	1.1417	1.0459#	0.5995#
30	1.3338	0.5763	0.7611	2.4577	1.5981	0.9488	0.9627	0.6477
31	1.0038	0.9984	0.8085	2.2699	1.4456	1.0778	1.1045	1.8842
32	1.1104	0.8915	1.0761	1.8472	1.3165	0.8388	1.2238	0.7301
33	0.9284	0.9853	0.5932	1.0861	1.5568	1.1006	1.0563	0.9643
34	1.1342	0.7197	0.9543	3.0608	1.6907	1.2103	0.3607	0.9574
35	1.0379	0.8107	0.5350	4.9198	1.5820	1.1111	1.0704	0.9599
36	1.0899	0.5059	0.4453	31.1398	1.6500	1.1282	1.2501	0.8247
37	1.7380	0.7162	0.7917	2.0637	1.2395	1.0128	1.0307	0.9644
38	1.1888	0.6474	0.5617	4.6805	1.4296	1.1216	0.9246	1.0672
39	2.2579	0.6918	0.6148	2.5808	1.9466	1.2929	1.1205	0.7074

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* Equation 2.1-2b. Used in 2.1-2a, CASE 2 derivation of $Q^{h}_{ms}(67)$.

** Equation 2.1-3b. Used in 2.1-3a, CASE 3 derivation of $Q^{h}_{ms}(67)$.

\# Used in preliminary run. SIC 2911 numbers are calculated as described in Section 2.1-4.

A P P E N D I X G

BTU CONVERSION FACTORS

State	Gas[1]	Gas[5]	Coal[6]	Oil[7]	Coking Coal[8]
Connecticut	1021	1032	12764	149383	--
Massachusetts	1013	999	12725	149509	--
Rhode Island	1041	1030	13622	149619	--
Vermont	1009	--	13772	--	--
Maine	1025	--	11771[3]	149692	--
New Hampshire	1014	--	13859	149208	--
New Jersey	1040	1039	13150	149088	13864
New York	1023	1037	13109	148593	13864
Pennsylvania	1034	999	12266	150741	13950
Illinois	1033	1047	10697	148089	12953
Indiana	1000	1028	11341	138769	--
Michigan	1019	1046	12568	137415	14015
Ohio	1033	1032	11668	139734	13876
Wisconsin	1023	1020	11851	137590	14084
Iowa	1021	1020	10785	149498	--
Kansas	990	1005	12079	150743	--
Minnesota	1008	1012	11216	148173	14084
Missouri	1018	979	10756	144922	13244
Nebraska	996	1001	12121	149461	--
North Dakota	1006	1050	6861	147685	--
South Dakota	1004	1007	8678	--	--
Delaware	1042	1037	13217	146295	--
Florida	1039	1018	11520	149846	--
Georgia	1043	1048	12198	145133	--
Maryland	1024	1024	13012	149155	13864
D. C.	1024[2]	--	13187	150000	--
North Carolina	1029	1045	12614	140842	--
South Carolina	1040	1050	12614	149126	--
Virginia	1030	1050	12960	143537	--
West Virginia	1042	1100	11764	147336	13783

State	Gas[1]	Gas[5]	Coal[6]	Oil[7]	Coking Coal[8]
Alabama	1031	1044	11893	--	14038
Kentucky	1024	1035	12821	138889	13244
Mississippi	1023	1048	17771[3]	150703	--
Tennessee	1042	1050	11737	--	13244
Arkansas	1001	1019	11771[3]	148720	--
Louisiana	1033	1071	11771[3]	143773	--
Oklahoma	1024	1037	11771[3]	145408	--
Texas	1044	1045	11771[3]	141534	13244
Arizona	1065	1064	10427	144372	--
Colorado	908	894	10572	148090	13147
Idaho	1048	--	11771[3]	--	--
Montana	998	1166	6560	153175	--
Nevada	1051	1064	12703	149225	--
New Mexico	1097	1043	8873	150133	--
Utah	924	930	12454	155126	13147
Wyoming	950	1050	7824	135093	--
Alaska	1000	--	11771[3]	--	--
California	1072	1074	11771[3]	151566	13147
Oregon	1059	1061	11771[3]	153571	--
Washington	1063	--	11771[3]	154762	--
Hawaii	1032[3]	--	11771[3]	--	--

NATIONAL AVERAGE BTU CONVERSION FACTORS

Gas	1032 Btu's/cu.ft.[1]	DFO	138690 Btu's/gal.[4]
	1035 Btu's/cu.ft.[4]	RFO	149690 Btu's/gal.[4]
	1044 Btu's/cu.ft.[5]	Diesel Oil	138238 Btu's/gal.[4]
Blast Furnace Gas	100 Btu's/cu.ft.[4]	Gasoline	125071 Btu's/gal.[4]
Coke Oven Gas	500 Btu's/cu.ft.[4]	Kerosine	135000 Btu's/gal.[4]
Still Gas	1500 Btu's/cu.ft.[4]	LPG	95500 Btu's/gal.[4]
Coal	11771 Btu's/lb.[5]	Jet Fuel:	
	13790 Btu's/lb.[8]	Commercial	135000 Btu's/gal.[4]
Coke	12400 Btu's/lb.[4]	Military	127500 Btu's/gal.[4]
Crude Oil	138095 Btu's/gal.[4]	Petroleum Coke	143429 Btu's/gal.[4]
Fuel Oil	149673 Btu's/gal.[7]	Electricity	3412 Btu's/kwh.[4]
	143405 Btu's/gal.[9]		

1. Btu value/cubic foot, 1967. From Gas Facts [2].
2. Maryland and D.C. combined.
3. U.S. average Btu value.
4. Btu value used in Energy Research Group report [13].
5. FPC, electric utility values for gas, as burned in 1967. Btu value/cubic foot [23].
6. FPC, electric utility values for coal, as burned in 1967. Btu value/gallon [23].
7. FPC, electric utility values for fuel oil, as burned in 1967. Btu value/gallon [23].
8. Btu value/pound of coal shipped to coke plants, by state of destination [29, 45]. National average value for coking coal used for states with no entry.
9. Weighted average of DFO and RFO [13].

APPENDICES FOLLOWING

APPENDIX H - GAS

(10**9 BTU). ONE UNIT IN THIS TABLE APPROXIMATES 969000 CU. FT. OF GAS

	NEW ENGLAND						MIDDLE ATLANTIC		
INDUSTRY NUMBER AND TITLE	CT	MA	RI	VT	ME	NH	NJ	NY	PA
01-LIVESTOCK & LIVESTOCK PRODS...	47.1	43.4	5.7	62.8	69.1	22.5	54.5	368.7	359.5
02-OTHER AGRICULTURAL PRODS.....	33.8	35.1	4.8	10.6	37.5	7.4	80.1	176.9	166.1
03-FORESTRY & FISHERY PRODS.....	1.1	20.4	3.0	0.7	13.9	1.3	5.7	9.1	4.6
04-AG,FORESTRY, & FISHERY SVCES..	6.2	6.7	0.8	3.0	22.5	3.2	7.1	32.5	38.6
05-IRON & FERRO ORES MINING.....	0.0	0.0	0.0	0.0	0.0	0.0	61.5	884.0	1314.7
06-NONFERROUS METAL ORES MINING..	0.0	0.0	0.0	0.0	0.0	0.0	67.3	659.6	69.0
07-COAL MINING.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	788.0
08-CRUDE PETROLEUM & NATURAL GAS.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	471.7	2279.3
09-STONE & CLAY MINING.....	261.8	315.1	257.1	456.6	32.9	49.7	1545.1	2108.2	2544.1
10-CHEM & FERTILIZER MINERAL MNG.	0.0	0.0	820.8	392.6	398.8	0.0	404.7	398.0	402.3
11-NEW CONSTRUCTION.....	262.3	466.2	66.6	35.2	50.5	49.4	591.3	1003.4	851.0
12-MAINT & REPAIR CONSTRUCTION...	38.5	55.1	8.7	4.1	10.0	8.7	85.0	148.2	91.4
13-ORDNANCE & ACCESSORIES.....	122.8	105.7	0.0	81.3	32.3	0.0	51.0	67.4	651.0
14-FOOD & KINDRED PRODUCTS.....	140.6	1628.3	848.1	893.3	601.2	99.1	3915.3	17549.8	14181.2
15-TOBACCO MANUFACTURES.....	10.8	0.0	0.0	0.0	0.0	0.0	13.3	2.0	217.5
16-FABRICS.....	783.4	601.3	978.7	1.3	24.5	100.8	547.4	1556.6	1169.1
17-TEXTILE PRODUCTS.....	542.4	459.5	352.8	0.0	3.1	13.5	571.2	1783.4	982.6
18-APPAREL.....	200.7	140.7	138.7	8.8	0.0	67.9	380.5	1699.9	969.9
19-MISC TEXTILE PRODUCTS.....	103.6	74.2	92.6	2.9	0.0	12.3	211.8	430.0	191.6
20-LUMBER & WOOD PRODUCTS.....	185.8	102.5	114.4	0.0	1149.8	0.0	297.0	638.5	1453.2
21-WOODEN CONTAINERS.....	12.5	5.0	0.0	0.0	5.8	0.0	26.0	20.5	31.8
22-HOUSEHOLD FURNITURE.....	49.7	50.6	0.0	0.0	8.2	28.7	64.1	253.1	382.4
23-OTHER FURNITURE.....	117.4	33.2	0.0	0.0	15.3	15.8	91.8	571.5	681.4
24-PAPER & ALLIED PRODUCTS.....	275.9	1265.5	119.9	846.1	57.9	830.9	1092.9	2359.9	8295.3
25-PAPERBOARD CONTAINERS.....	39.7	106.7	28.3	77.0	0.3	17.8	193.2	266.9	1171.4
26-PRINTING & PUBLISHING.....	108.6	663.6	110.7	143.5	0.0	107.9	709.6	2713.6	2940.9
27-CHEMICALS, SELECTED PRODUCTS..	343.4	1484.8	262.5	0.0	0.0	78.8	10996.0	5344.8	8050.6
28-PLASTICS & SYNTHETICS.....	47.8	486.2	37.4	0.0	0.0	18.1	530.7	250.8	1482.7
29-DRUGS & COSMETICS.....	63.4	118.6	5.2	0.0	0.0	0.0	938.0	824.4	849.8
30-PAINT & ALLIED PRODUCTS.....	1.9	37.7	2.6	0.0	0.0	0.0	178.2	92.2	167.3
31-PETROLEUM, RELATED INDUSTRIES.	708.2	1033.8	0.0	0.0	0.0	293.1	8665.2	1982.8	26872.8
*.01-PETROLEUM REFINING & PRODS.	0.0	0.0	0.0	0.0	0.0	0.0	6414.5	0.0	24827.5
*.02-PAVING MIXTURES & BLOCKS...	293.1	939.5	0.0	0.0	0.0	293.1	1065.4	1982.8	1270.3
*.03-ASPHALT FELTS & COATINGS...	415.1	94.3	0.0	0.0	0.0	0.0	1185.3	0.0	775.1
32-RUBBER, MISC PLASTICS.....	216.8	1308.8	77.4	184.5	0.0	77.5	1588.8	2190.3	1913.5
33-LEATHER TANNING & PRODUCTS....	0.0	108.0	0.0	0.0	26.0	0.0	78.2	80.4	243.4
34-FOOTWEAR, LEATHER PRODUCTS....	63.9	135.1	72.7	0.0	82.0	0.0	58.6	327.3	694.6
35-GLASS & GLASS PRODUCTS.....	194.2	8.5	1389.6	0.0	0.0	0.0	7540.1	3565.7	22620.0
36-STONE & CLAY PRODUCTS.....	777.0	909.1	650.9	0.0	0.0	183.3	8755.4	9251.2	26556.4
37-PRIMARY IRON, STEEL MFG.....	1417.9	1532.4	252.0	105.6	72.7	0.0	1690.1	15201.2	255945.7
38-PRIMARY NONFERROUS MFG.....	2951.3	1422.1	999.6	220.1	34.0	0.0	4093.7	12669.8	26130.0
39-METAL CONTAINERS.....	0.0	60.7	0.0	0.0	45.5	0.0	1010.1	516.8	1179.7
40-FABRICATED METAL PRODUCTS.....	283.0	460.3	29.0	17.2	71.1	41.1	1139.0	2760.8	8226.4
41-SCREW MACHINE PRODUCTS, ETC...	486.8	301.7	32.2	3.5	0.0	9.5	515.0	1401.0	2414.4

INDUSTRY NUMBER AND TITLE	CT	MA	RI	VT	ME	NH	NJ	NY	PA
42-OTHER FABRICATED METAL PRODS..	1229.9	1383.5	99.8	7.1	3.0	58.9	1680.4	2909.4	5668.8
43-ENGINES & TURBINES.....	40.7	89.8	0.0	0.0	0.0	0.0	85.0	592.6	1138.2
44-FARM MACHINERY & EQUIPMENT....	0.0	4.7	0.0	0.0	0.0	0.0	13.8	94.0	454.6
45-CONSTRUCTION MACH & EQUIPMENT.	0.0	4.0	0.0	0.0	0.0	24.5	92.9	125.2	1259.8
46-MATERIALS HAND MACH & EQUIP...	4.0	15.7	0.0	0.0	0.0	0.0	145.9	217.3	651.6
47-METALWORKING MACH & EQUIPMENT.	523.3	243.7	171.3	0.0	0.0	30.3	364.2	845.6	2012.5
48-SPECIAL MACHINERY & EQUIPMENT.	118.8	200.2	91.5	0.0	0.0	48.1	397.1	635.0	1143.9
49-GENERAL MACHINERY & EQUIPMENT.	570.1	155.3	35.6	0.0	0.0	62.3	758.6	1472.7	3065.1
50-MACHINE SHOP PRODUCTS.....	211.0	107.7	37.4	0.0	0.0	11.3	295.9	969.8	1118.4
51-OFFICE, COMPUTING MACHINES....	67.2	90.1	0.0	0.0	0.0	4.0	104.1	765.8	147.3
52-SERVICE INDUSTRY MACHINES.....	38.0	33.6	3.5	0.0	0.0	0.0	320.1	603.3	749.9
53-ELECTRIC TRANSMISSION EQUIP...	340.1	276.9	2.7	0.0	11.9	20.2	388.9	1534.7	3453.9
54-HOUSEHOLD APPLIANCES.....	223.1	40.4	5.4	0.0	0.0	0.0	104.6	352.6	383.9
55-ELECTRIC LIGHTING EQUIPMENT...	295.8	274.0	44.8	36.0	0.0	2.4	556.0	1028.9	1455.7
56-RADIO, TV, ETC EQUIPMENT.....	111.1	312.9	12.8	0.0	5.6	14.5	750.8	1412.5	964.8
57-ELECTRONIC COMPONENTS.....	254.6	345.5	15.9	674.4	132.2	17.4	488.7	2812.8	2035.2
58-MISC ELECTRICAL MACHINERY.....	61.0	69.9	14.0	31.3	56.2	2.8	167.5	270.0	439.5
59-MOTOR VEHICLES, EQUIPMENT.....	59.0	283.1	7.7	0.0	0.0	4.0	1206.6	2491.0	1296.4
60-AIRCRAFT & PARTS.....	812.8	216.0	5.1	21.0	0.0	2.8	215.4	2104.7	1520.8
61-OTHER TRANSPORT EQUIPMENT.....	85.8	120.3	4.2	0.0	0.0	0.0	107.3	293.3	1229.6
62-PROFESSIONAL, SCIENT EQUIP....	251.5	514.8	95.2	18.0	2.3	50.8	234.6	737.1	1129.8
63-MEDICAL, PHOTOG EQUIPMENT.....	47.0	672.1	12.8	6.2	0.0	45.5	85.7	2153.0	68.6
64-MISC MANUFACTURING.....	239.6	495.6	272.4	22.8	18.5	0.0	589.5	1183.8	1513.0
65-TRANSPORT & WAREHOUSING.....									
*.01-RAILROADS & RELATED SVCES..									
*.02-LAND PASSENGER TRANSPORT...									
*.03-MOTOR FREIGHT TRANSPORT....									
*.04-WATER TRANSPORT.....									
*.05-AIR TRANSPORT.....									
*.06-PIPELINES, EXC NATURAL GAS.	10.3	9.7	0.6	57.9	84.8	35.1	186.0	101.3	523.0
*.07-TRANSPORT SERVICES.....									
66-COMMUNIC, EXCL BROADCASTING...	1085.6	1153.1	172.3	53.9	133.3	95.4	1437.6	3845.3	1805.8
67-RADIO & TV BROADCASTING.....	112.7	254.8	52.0	11.0	42.4	17.8	51.1	3014.9	695.2
68-ELEC, GAS, WATER, & SANIT SVC.	1538.0	12265.9	582.9	114.4	272.1	194.1	25428.4	101133.6	29450.9
*.01-ELECTRIC UTILITIES.....	453.9	8733.9	281.0	0.0	0.0	0.0	22861.9	89230.4	1683.8
*.02-GAS UTILITIES.....	300.7	2044.7	60.1	4.0	4.0	10.1	721.7	7037.0	24654.8
*.03-WATER & SANITARY SERVICES..	783.3	1487.3	241.8	110.4	268.1	184.0	1844.7	4866.3	3112.3
69-WHOLESALE & RETAIL TRADE.....	9837.6	20582.1	2896.3	1169.9	2706.1	1990.5	27181.1	87203.4	38852.2
70-FINANCE & INSURANCE.....	2279.2	3441.3	446.3	116.9	272.7	310.4	2819.2	20897.1	4906.8
71-REAL ESTATE & RENTAL.....	2272.4	3590.4	516.0	177.3	392.5	338.5	5576.9	15179.0	5799.7
72-HOTELS, REPAIR SVC,EXC AUTO...	1624.9	3418.1	506.1	268.7	470.1	400.4	3842.9	11792.0	6419.8
73-BUSINESS SERVICES.....	1988.4	5332.5	517.5	110.6	170.2	196.6	5255.3	39201.8	7445.9
75-AUTO REPAIR & SERVICES.....	170.4	283.2	42.4	19.3	44.5	37.9	347.5	936.0	594.1
76-AMUSEMENTS.....	172.2	478.5	95.2	54.8	51.2	87.5	578.5	5808.8	730.4
77-MED, ED SERV, NONPROF ORGAN...	9044.4	22278.1	2516.6	1452.1	1777.2	1796.2	13018.1	57600.3	28771.2
78-FEDERAL GOVT ENTERPRISES.....	394.7	1035.4	140.1	67.2	161.0	96.3	1047.1	3641.5	1688.4
79-STATE & LOCAL GOVT ENTERPRISE	1547.9	7064.6	315.6	611.9	1243.2	1844.8	4099.5	32569.9	19751.9
88-DOMESTIC FINAL DEMAND.....	27779.9	74489.9	11100.0	570.0	940.0	3250.0	126879.9	320139.6	289889.6
89- ** STATE TOTAL.....	76343.1	177214.1	28594.7	9223.5	11855.6	13229.8	285746.6	821301.3	895795.4

SEE FOOTNOTES AT END OF TABLE

INDUSTRY NUMBER AND TITLE	EAST NORTH CENTRAL				
	IL	IN	MN	OH	WI
01-LIVESTOCK & LIVESTOCK PRODS...	706.2	450.1	259.2	410.5	652.8
02-OTHER AGRICULTURAL PRODS.....	1177.9	497.8	253.2	398.4	165.7
03-FORESTRY & FISHERY PRODS.....	1.7	1.6	4.4	2.5	3.6
04-AG,FORESTRY, & FISHERY SVCES..	50.5	39.3	30.6	39.2	40.9
05-IRON & FERRO ORES MINING.....	0.0	0.0	6367.8	0.0	0.0
06-NONFERROUS METAL ORES MINING..	33.4	0.0	1493.1	0.0	208.8
07-COAL MINING.....	0.0	0.0	0.0	100.7	0.0
08-CRUDE PETROLEUM & NATURAL GAS.	1415.5	786.2	707.5	2908.8	0.0
09-STONE & CLAY MINING.....	2491.0	1300.9	1116.2	2448.2	1199.7
10-CHEM & FERTILIZER MINERAL MNG.	1618.3	389.1	1074.7	401.9	0.0
11-NEW CONSTRUCTION.....	1049.5	431.6	633.1	955.9	293.2
12-MAINT & REPAIR CONSTRUCTION...	130.7	47.7	72.9	110.3	52.3
13-ORDNANCE & ACCESSORIES.....	262.2	837.0	159.6	427.6	414.2
14-FOOD & KINDRED PRODUCTS.....	32503.5	11374.8	10505.6	12838.1	12391.0
15-TOBACCO MANUFACTURES.....	10.8	10.5	2.1	21.7	0.0
16-FABRICS.....	194.3	0.0	17.2	147.9	187.0
17-TEXTILE PRODUCTS.....	628.5	4.4	360.1	1187.3	430.4
18-APPAREL.....	583.7	532.5	131.6	495.9	295.2
19-MISC TEXTILE PRODUCTS.....	508.6	357.1	2147.3	188.9	119.5
20-LUMBER & WOOD PRODUCTS.....	820.5	625.7	1096.2	768.7	681.8
21-WOODEN CONTAINERS.....	30.3	9.6	18.6	14.8	19.2
22-HOUSEHOLD FURNITURE.....	547.2	481.2	356.4	473.6	170.4
23-OTHER FURNITURE.....	1115.3	237.2	1458.4	1345.5	312.8
24-PAPER & ALLIED PRODUCTS.....	5374.7	1041.7	11888.9	4758.8	20632.3
25-PAPERBOARD CONTAINERS.....	1293.1	274.9	1496.8	774.5	854.9
26-PRINTING & PUBLISHING.....	3824.1	769.1	2709.9	5157.5	753.5
27-CHEMICALS, SELECTED PRODUCTS..	23023.8	9675.2	20804.0	24696.0	1589.3
28-PLASTICS & SYNTHETICS.....	702.1	272.4	1623.1	1926.3	93.1
29-DRUGS & COSMETICS.....	1929.9	1476.6	1019.5	1327.1	168.6
30-PAINT & ALLIED PRODUCTS.....	763.7	116.4	464.9	597.5	31.8
31-PETROLEUM, RELATED INDUSTRIES.	21324.1	6128.5	3489.6	15657.1	1652.6
*.01-PETROLEUM REFINING & PRODS.	17771.7	5039.3	2474.2	12825.2	1557.7
*.02-PAVING MIXTURES & BLOCKS...	815.4	734.5	808.5	1446.1	94.8
*.03-ASPHALT FELTS & COATINGS...	2736.9	354.8	206.9	1385.8	0.0
32-RUBBER, MISC PLASTICS.....	3543.7	2669.6	2675.5	8394.6	708.3
33-LEATHER TANNING & PRODUCTS....	480.9	46.1	639.6	155.7	1214.9
34-FOOTWEAR, LEATHER PRODUCTS....	722.1	81.7	352.5	211.2	665.3
35-GLASS & GLASS PRODUCTS.....	14269.6	11832.9	3428.3	28510.4	227.2
36-STONE & CLAY PRODUCTS.....	20229.6	15413.2	6435.0	39709.5	2233.3
37-PRIMARY IRON, STEEL MFG.....	84359.3	113538.4	42679.7	162493.6	14225.3
38-PRIMARY NONFERROUS MFG.....	33637.1	31272.9	8945.8	29189.7	3284.1
39-METAL CONTAINERS.....	2118.1	204.5	240.1	1059.0	919.9
40-FABRICATED METAL PRODUCTS.....	3859.2	2614.4	2482.5	7013.1	2555.5
41-SCREW MACHINE PRODUCTS, ETC...	4079.8	1458.9	5107.8	6044.6	1380.8

INDUSTRY NUMBER AND TITLE	IL	IN	MN	OH	WI
42-OTHER FABRICATED METAL PRODS..	6696.5	2216.0	4500.6	8618.5	1569.9
43-ENGINES & TURBINES.....	652.8	568.6	917.8	417.1	1438.2
44-FARM MACHINERY & EQUIPMENT....	2937.4	655.6	820.4	832.1	1906.9
45-CONSTRUCTION MACH & EQUIPMENT.	4423.1	387.8	964.4	2100.2	1480.4
46-MATERIALS HAND MACH & EQUIP...	543.8	79.7	574.7	844.2	282.0
47-METALWORKING MACH & EQUIPMENT.	2211.5	530.8	3975.2	5438.4	945.9
48-SPECIAL MACHINERY & EQUIPMENT.	740.4	288.6	483.6	1239.8	600.8
49-GENERAL MACHINERY & EQUIPMENT.	1872.2	1710.8	1239.1	4096.1	1243.5
50-MACHINE SHOP PRODUCTS.....	1105.0	567.3	1425.0	1652.1	435.4
51-OFFICE, COMPUTING MACHINES....	200.1	2.4	156.8	738.5	36.0
52-SERVICE INDUSTRY MACHINES.....	683.1	422.1	993.4	1693.7	425.1
53-ELECTRIC TRANSMISSION EQUIP...	1440.9	883.1	1100.8	5901.1	2074.8
54-HOUSEHOLD APPLIANCES.....	1771.4	1018.7	1316.0	7684.9	658.0
55-ELECTRIC LIGHTING EQUIPMENT...	1255.2	585.5	267.4	3189.9	148.2
56-RADIO, TV, ETC EQUIPMENT.....	2278.3	962.1	261.7	746.5	277.1
57-ELECTRONIC COMPONENTS.....	1398.2	752.1	59.7	1137.5	156.1
58-MISC ELECTRICAL MACHINERY.....	537.8	1641.0	1513.4	1950.4	302.7
59-MOTOR VEHICLES, EQUIPMENT.....	1923.0	6221.3	34310.9	11694.7	3035.0
60-AIRCRAFT & PARTS.....	235.0	1571.9	453.2	3191.3	18.6
61-OTHER TRANSPORT EQUIPMENT.....	964.9	1240.7	415.5	549.8	223.7
62-PROFESSIONAL, SCIENT EQUIP....	1878.0	532.4	712.1	649.8	170.6
63-MEDICAL, PHOTOG EQUIPMENT.....	645.3	403.7	47.2	33.2	6.6
64-MISC MANUFACTURING.....	1268.4	1182.4	574.2	1659.8	749.3
65-TRANSPORT & WAREHOUSING.....					
*.01-RAILROADS & RELATED SVCES..					
*.02-LAND PASSENGER TRANSPORT...					
*.03-MOTOR FREIGHT TRANSPORT....					
*.04-WATER TRANSPORT.....					
*.05-AIR TRANSPORT.....					
*.06-PIPELINES, EXC NATURAL GAS.	1075.0	504.3	746.2	527.1	159.2
*.07-TRANSPORT SERVICES.....					
66-COMMUNIC, EXCL BROADCASTING...	2666.5	1405.8	1464.4	1474.5	599.6
67-RADIO & TV BROADCASTING.....	796.8	200.4	515.8	595.4	177.9
68-ELEC, GAS, WATER, & SANIT SVC.	70390.1	28308.4	12718.8	20114.7	24498.5
*.01-ELECTRIC UTILITIES.....	47569.1	15294.7	1220.4	3386.1	20465.7
*.02-GAS UTILITIES.....	19903.0	11668.0	9201.5	13953.3	2887.3
*.03-WATER & SANITARY SERVICES..	2918.0	1345.7	2296.9	2775.4	1145.5
69-WHOLESALE & RETAIL TRADE.....	50207.2	16052.1	30371.2	36768.2	13700.1
70-FINANCE & INSURANCE.....	6099.5	1760.3	3005.5	3718.9	1460.9
71-REAL ESTATE & RENTAL.....	8252.3	2300.7	4874.5	6074.4	2237.4
72-HOTELS, REPAIR SVC,EXC AUTO...	7427.6	2488.8	4473.8	5314.3	2124.4
73-BUSINESS SERVICES.....	13458.9	1721.4	6744.0	6385.6	2013.8
75-AUTO REPAIR & SERVICES.....	603.0	230.4	478.3	523.4	192.3
76-AMUSEMENTS.....	1112.0	246.9	674.0	840.2	232.2
77-MED, ED SERV, NONPROF ORGAN...	26178.1	7520.7	15756.1	20300.1	8181.4
78-FEDERAL GOVT ENTERPRISES.....	3527.9	591.0	1066.3	1432.4	512.9
79-STATE & LOCAL GOVT ENTERPRISE	14407.9	4851.5	16375.9	19419.9	3101.9
88-DOMESTIC FINAL DEMAND.....	387749.6	133709.9	312279.5	453249.5	93719.9
89- ** STATE TOTAL.....	903024.6	443616.7	613376.1	1006154.9	241925.8

SEE FOOTNOTES AT END OF TABLE

INDUSTRY NUMBER AND TITLE	WEST NORTH CENTRAL						
	IA	KA	MI	MO	NB	ND	SD
01-LIVESTOCK & LIVESTOCK PRODS...	1331.8	480.6	661.0	590.3	601.3	169.6	419.8
02-OTHER AGRICULTURAL PRODS.....	806.6	357.2	510.1	299.8	515.6	281.6	165.4
03-FORESTRY & FISHERY PRODS.....	0.5	0.2	2.9	1.9	0.1	0.1	0.6
04-AG,FORESTRY, & FISHERY SVCES..	69.8	29.5	71.4	52.2	33.7	17.6	21.3
05-IRON & FERRO ORES MINING.....	67.1	0.0	18798.0	1371.3	0.0	0.0	0.0
06-NONFERROUS METAL ORES MINING..	0.0	32.0	0.0	740.7	0.0	0.0	140.0
07-COAL MINING.....	7.3	9.1	0.0	4.7	0.0	8.6	0.0
08-CRUDE PETROLEUM & NATURAL GAS.	0.0	8254.6	157.2	1179.1	235.8	3223.0	0.0
09-STONE & CLAY MINING.....	1170.4	530.1	437.1	1286.0	462.0	111.9	323.7
10-CHEM & FERTILIZER MINERAL MNG.	397.3	385.2	392.2	1594.8	387.5	0.0	0.0
11-NEW CONSTRUCTION.....	176.3	196.0	228.8	398.7	90.7	33.5	41.8
12-MAINT & REPAIR CONSTRUCTION...	44.8	37.8	34.5	48.7	26.2	15.7	16.1
13-ORDNANCE & ACCESSORIES.....	115.3	19.5	856.4	1819.5	325.1	0.0	0.0
14-FOOD & KINDRED PRODUCTS.....	25922.9	11855.2	23376.9	19755.4	10187.0	548.3	1275.9
15-TOBACCO MANUFACTURES.....	0.0	0.0	0.0	13.9	0.0	0.0	0.0
16-FABRICS.....	0.5	0.0	48.4	62.4	0.0	0.0	0.0
17-TEXTILE PRODUCTS.....	0.2	0.0	366.8	81.6	0.0	0.0	0.0
18-APPAREL.....	40.2	131.3	138.9	836.3	26.7	0.0	0.0
19-MISC TEXTILE PRODUCTS.....	64.6	28.3	76.9	432.8	7.9	0.0	33.2
20-LUMBER & WOOD PRODUCTS.....	276.8	108.8	321.0	1978.0	107.7	0.0	97.4
21-WOODEN CONTAINERS.....	13.2	0.0	6.5	112.6	0.0	0.0	0.0
22-HOUSEHOLD FURNITURE.....	33.8	39.9	34.4	186.7	91.1	0.0	0.0
23-OTHER FURNITURE.....	87.7	52.5	78.6	308.4	219.7	0.0	0.0
24-PAPER & ALLIED PRODUCTS.....	1077.2	653.3	14150.7	1272.5	159.3	0.0	0.0
25-PAPERBOARD CONTAINERS.....	302.7	348.4	565.6	411.7	73.0	0.0	0.0
26-PRINTING & PUBLISHING.....	717.8	452.4	1779.2	1770.2	232.0	52.4	58.0
27-CHEMICALS, SELECTED PRODUCTS..	13367.0	32130.5	623.0	11534.4	8540.9	0.0	0.0
28-PLASTICS & SYNTHETICS.....	1756.2	245.6	15.7	53.5	0.0	0.0	0.0
29-DRUGS & COSMETICS.....	884.2	2051.6	50.4	865.6	401.2	0.0	0.0
30-PAINT & ALLIED PRODUCTS.....	334.7	85.6	7.8	247.4	0.0	0.0	0.0
31-PETROLEUM, RELATED INDUSTRIES.	0.0	30116.2	9775.9	6585.8	274.9	4398.0	0.0
*.01-PETROLEUM REFINING & PRODS.	0.0	29688.9	9346.5	6231.0	274.9	4398.0	0.0
*.02-PAVING MIXTURES & BLOCKS...	0.0	344.8	103.4	0.0	0.0	0.0	0.0
*.03-ASPHALT FELTS & COATINGS...	0.0	82.5	326.0	354.8	0.0	0.0	0.0
32-RUBBER, MISC PLASTICS.....	2108.0	1248.3	462.5	700.6	451.9	0.0	6.2
33-LEATHER TANNING & PRODUCTS....	0.0	0.0	60.3	6.3	0.0	0.0	0.0
34-FOOTWEAR, LEATHER PRODUCTS....	13.3	0.0	46.9	136.4	0.0	0.0	0.0
35-GLASS & GLASS PRODUCTS.....	671.9	0.0	716.9	4986.3	0.0	0.0	0.0
36-STONE & CLAY PRODUCTS.....	16372.2	18023.9	4833.9	19540.7	3780.4	928.9	1578.8
37-PRIMARY IRON, STEEL MFG.....	1688.7	393.4	2150.1	5683.8	29.4	0.0	98.9
38-PRIMARY NONFERROUS MFG.....	2806.0	385.2	603.0	4348.1	777.4	0.0	0.0
39-METAL CONTAINERS.....	0.0	0.0	538.8	960.8	148.7	0.0	0.0
40-FABRICATED METAL PRODUCTS.....	759.8	745.6	822.6	1904.2	490.7	13.7	32.6
41-SCREW MACHINE PRODUCTS, ETC...	84.6	18.5	359.5	338.2	0.0	0.0	0.0

INDUSTRY NUMBER AND TITLE	IA	KA	MI	MO	NB	ND	SD
42-OTHER FABRICATED METAL PRODS..	734.6	210.6	563.5	1372.6	153.7	0.0	0.0
43-ENGINES & TURBINES.....	161.3	0.0	13.3	8.9	0.0	0.0	0.0
44-FARM MACHINERY & EQUIPMENT....	4532.4	380.5	451.6	533.7	162.0	33.9	45.5
45-CONSTRUCTION MACH & EQUIPMENT.	2318.9	167.8	389.8	173.0	9.9	67.4	0.0
46-MATERIALS HAND MACH & EQUIP...	91.0	64.5	40.6	58.2	0.0	0.0	26.5
47-METALWORKING MACH & EQUIPMENT.	247.0	40.1	171.2	354.8	8.5	0.0	14.8
48-SPECIAL MACHINERY & EQUIPMENT.	217.1	73.8	70.6	143.6	0.0	0.0	0.0
49-GENERAL MACHINERY & EQUIPMENT.	239.8	232.3	255.6	254.1	86.2	0.0	0.0
50-MACHINE SHOP PRODUCTS.....	116.7	358.7	275.8	890.7	30.3	11.8	50.9
51-OFFICE, COMPUTING MACHINES....	0.0	0.0	542.5	40.4	0.0	0.0	0.0
52-SERVICE INDUSTRY MACHINES.....	174.0	67.9	372.9	710.6	1.5	0.0	0.0
53-ELECTRIC TRANSMISSION EQUIP...	191.0	0.0	288.6	1118.7	19.6	0.0	7.4
54-HOUSEHOLD APPLIANCES.....	580.3	0.0	363.1	428.9	0.0	0.0	0.0
55-ELECTRIC LIGHTING EQUIPMENT...	0.0	63.8	60.1	818.7	0.0	0.0	0.0
56-RADIO, TV, ETC EQUIPMENT.....	556.6	28.8	104.1	480.8	181.9	0.0	0.0
57-ELECTRONIC COMPONENTS.....	211.6	153.4	180.4	92.6	105.2	0.0	20.9
58-MISC ELECTRICAL MACHINERY.....	114.3	525.3	68.1	200.4	6.1	0.0	0.0
59-MOTOR VEHICLES, EQUIPMENT.....	464.1	1784.2	793.2	4225.7	191.6	0.0	11.8
60-AIRCRAFT & PARTS.....	46.4	1557.0	113.8	1999.2	0.0	0.0	3.4
61-OTHER TRANSPORT EQUIPMENT.....	139.3	214.2	108.8	189.1	134.6	0.0	0.0
62-PROFESSIONAL, SCIENT EQUIP....	57.4	9.6	284.0	298.8	319.7	0.0	0.0
63-MEDICAL, PHOTOG EQUIPMENT.....	0.0	0.0	201.5	26.2	0.0	0.0	0.0
64-MISC MANUFACTURING.....	222.5	50.3	496.5	597.9	171.8	5.0	5.9
65-TRANSPORT & WAREHOUSING.....							
*.01-RAILROADS & RELATED SVCES..							
*.02-LAND PASSENGER TRANSPORT...							
*.03-MOTOR FREIGHT TRANSPORT....							
*.04-WATER TRANSPORT.....							
*.05-AIR TRANSPORT.....							
*.06-PIPELINES, EXC NATURAL GAS.	246.0	1211.0	764.8	1048.0	334.9	221.2	24.8
*.07-TRANSPORT SERVICES.....							
66-COMMUNIC, EXCL BROADCASTING...	401.2	247.9	631.7	512.4	447.1	83.0	84.2
67-RADIO & TV BROADCASTING.....	115.1	67.2	170.2	275.1	74.2	45.5	19.2
68-ELEC, GAS, WATER, & SANIT SVC.	74230.3	191461.6	57295.6	59094.3	48603.0	195.4	3200.0
*.01-ELECTRIC UTILITIES.....	59107.7	131098.6	53556.5	46881.7	37512.5	15.1	2967.2
*.02-GAS UTILITIES.....	14376.1	59779.5	2766.5	11003.5	10701.5	12.3	54.1
*.03-WATER & SANITARY SERVICES..	746.5	583.5	972.6	1209.0	389.0	168.3	178.7
69-WHOLESALE & RETAIL TRADE.....	10061.1	6788.3	13919.1	18743.1	5628.6	2059.5	1973.9
70-FINANCE & INSURANCE.....	895.0	617.2	1927.5	2233.5	668.8	161.1	165.7
71-REAL ESTATE & RENTAL.....	1162.6	941.8	2072.3	2345.9	618.1	202.7	196.0
72-HOTELS, REPAIR SVC,EXC AUTO...	1511.3	1224.7	2048.6	2755.8	930.3	313.0	330.8
73-BUSINESS SERVICES.....	923.1	663.7	2146.9	3358.6	634.2	128.1	121.7
75-AUTO REPAIR & SERVICES.....	139.9	108.1	185.4	248.2	77.9	39.7	31.8
76-AMUSEMENTS.....	150.9	110.0	231.7	334.3	114.0	28.8	54.6
77-MED, ED SERV, NONPROF ORGAN...	4633.1	3240.1	8054.2	9839.1	2453.1	1076.6	990.3
78-FEDERAL GOVT ENTERPRISES.....	378.7	342.6	579.3	842.1	249.2	117.7	109.8
79-STATE & LOCAL GOVT ENTERPRISE	4334.2	2701.7	5195.9	4630.1	6342.1	305.0	608.9
88-DOMESTIC FINAL DEMAND.....	83809.9	85109.9	92309.9	139469.9	47470.0	6950.0	10230.0
89- ** STATE TOTAL.....	267979.3	410263.0	277902.9	355249.9	144905.5	21848.5	22638.4

SEE FOOTNOTES AT END OF TABLE

INDUSTRY NUMBER AND TITLE	SOUTH ATLANTIC								
	DE	FL	GA	MD	DC	NC	SC	VA	WV
01-LIVESTOCK & LIVESTOCK PRODS...	46.3	176.0	348.1	121.7	0.0	292.9	97.5	182.4	51.5
02-OTHER AGRICULTURAL PRODS.....	32.3	392.1	271.2	84.4	0.0	448.4	146.2	145.1	16.8
03-FORESTRY & FISHERY PRODS.....	0.3	19.5	11.9	9.7	0.0	14.9	7.8	18.6	4.2
04-AG,FORESTRY, & FISHERY SVCES..	12.9	37.5	141.6	33.5	0.0	92.2	25.8	33.8	27.8
05-IRON & FERRO ORES MINING.....	0.0	136.6	147.4	0.0	0.0	0.0	68.3	118.4	85.6
06-NONFERROUS METAL ORES MINING..	0.0	75.6	179.2	0.0	0.0	0.0	0.0	102.0	0.0
07-COAL MINING.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	465.6
08-CRUDE PETROLEUM & NATURAL GAS.	0.0	78.6	0.0	0.0	0.0	0.0	0.0	1257.9	2673.4
09-STONE & CLAY MINING.....	153.2	1061.8	2263.4	289.6	40.5	1577.3	841.2	1404.1	689.6
10-CHEM & FERTILIZER MINERAL MNG.	821.5	4085.9	8290.3	398.4	0.0	3635.0	404.7	400.8	405.4
11-NEW CONSTRUCTION.....	44.8	555.6	388.3	303.8	73.0	348.1	205.4	338.0	132.9
12-MAINT & REPAIR CONSTRUCTION...	5.5	92.3	39.0	41.3	7.7	46.1	13.9	42.4	15.5
13-ORDNANCE & ACCESSORIES.....	0.0	0.0	199.3	32.7	0.0	36.4	11.0	69.8	151.8
14-FOOD & KINDRED PRODUCTS.....	305.6	7636.0	8666.9	2133.9	337.7	3163.1	2170.2	1941.4	1097.5
15-TOBACCO MANUFACTURES.....	0.0	86.3	19.7	0.0	0.0	516.4	0.0	674.0	17.6
16-FABRICS.....	2.3	30.1	16109.4	0.0	0.0	11041.2	13947.6	2055.5	1.8
17-TEXTILE PRODUCTS.....	2.8	0.0	0.0	0.0	0.0	1197.0	1993.1	461.6	0.0
18-APPAREL.....	76.4	258.7	1913.7	465.4	0.0	668.5	1720.8	312.6	64.0
19-MISC TEXTILE PRODUCTS.....	24.2	104.0	1226.9	148.8	4.2	253.1	949.9	77.8	12.6
20-LUMBER & WOOD PRODUCTS.....	53.9	122.7	1597.5	438.0	20.5	1214.1	657.1	745.8	542.9
21-WOODEN CONTAINERS.....	0.0	40.5	109.5	24.5	0.0	17.0	11.6	19.1	0.0
22-HOUSEHOLD FURNITURE.....	0.0	140.3	151.0	73.9	0.0	370.1	59.6	140.4	12.4
23-OTHER FURNITURE.....	0.0	99.6	113.8	126.5	0.0	74.1	18.2	42.6	12.6
24-PAPER & ALLIED PRODUCTS.....	141.7	3315.1	24110.8	825.3	303.1	2969.5	3020.8	4419.4	383.1
25-PAPERBOARD CONTAINERS.....	108.8	251.8	1738.8	278.2	21.0	227.1	333.5	263.8	62.1
26-PRINTING & PUBLISHING.....	75.1	207.3	776.6	207.0	212.9	568.0	167.5	316.4	277.6
27-CHEMICALS, SELECTED PRODUCTS..	13470.6	16858.0	17975.8	3687.7	491.9	7113.5	8942.7	2502.5	24643.8
28-PLASTICS & SYNTHETICS.....	6683.7	0.0	1304.5	536.8	0.0	3441.6	2939.6	1426.3	2429.0
29-DRUGS & COSMETICS.....	696.2	3970.9	64.9	282.7	0.0	242.9	135.6	71.0	120.3
30-PAINT & ALLIED PRODUCTS.....	0.0	0.0	88.4	61.7	0.0	109.0	39.3	10.5	0.0
31-PETROLEUM, RELATED INDUSTRIES.	8705.2	567.2	1291.6	7305.8	0.0	1135.0	2565.9	4921.0	1542.9
*.01-PETROLEUM REFINING & PRODS.	8705.2	0.0	641.4	6336.9	0.0	1135.0	2269.9	4539.9	641.4
*.02-PAVING MIXTURES & BLOCKS...	0.0	360.3	117.2	968.9	0.0	0.0	0.0	272.4	639.6
*.03-ASPHALT FELTS & COATINGS...	0.0	206.9	532.9	0.0	0.0	0.0	295.9	108.7	261.9
32-RUBBER, MISC PLASTICS.....	398.4	0.0	1435.6	232.2	0.0	865.5	1272.4	1023.9	198.6
33-LEATHER TANNING & PRODUCTS....	154.3	0.0	0.0	25.1	0.0	63.1	0.0	34.7	64.4
34-FOOTWEAR, LEATHER PRODUCTS....	49.5	802.1	96.0	90.6	0.0	111.9	0.0	50.0	21.8
35-GLASS & GLASS PRODUCTS.....	0.0	0.0	2591.2	1868.5	0.0	3741.1	6662.4	1543.9	26076.9
36-STONE & CLAY PRODUCTS.....	2076.7	6157.8	14095.1	4058.1	1666.4	6669.5	7404.1	5110.9	7064.8
37-PRIMARY IRON, STEEL MFG.....	414.8	1637.1	2856.3	12791.1	0.0	371.9	984.2	2480.0	12327.1
38-PRIMARY NONFERROUS MFG.....	726.5	0.0	1452.3	3034.3	0.0	1318.6	99.2	1951.1	6257.6
39-METAL CONTAINERS.....	0.0	826.9	529.6	646.4	0.0	0.0	0.0	81.1	278.3
40-FABRICATED METAL PRODUCTS.....	64.1	138.1	1078.5	698.0	26.2	373.4	215.9	509.9	893.8
41-SCREW MACHINE PRODUCTS, ETC...	8.0	0.0	72.0	104.8	0.0	61.6	51.9	5.8	89.2

INDUSTRY NUMBER AND TITLE	DE	FL	GA	MD	DC	NC	SC	VA	WV
42-OTHER FABRICATED METAL PRODS..	40.4	0.0	310.9	350.0	0.0	267.9	31.2	202.6	1059.1
43-ENGINES & TURBINES.....	0.0	26.9	17.6	0.0	0.0	0.0	0.0	9.6	0.0
44-FARM MACHINERY & EQUIPMENT....	0.0	141.2	52.0	0.0	0.0	48.3	38.2	61.0	69.7
45-CONSTRUCTION MACH & EQUIPMENT.	0.0	1.2	36.7	6.3	0.0	18.3	40.6	152.5	191.2
46-MATERIALS HAND MACH & EQUIP...	0.0	0.0	0.0	11.4	0.0	0.0	28.1	30.3	65.7
47-METALWORKING MACH & EQUIPMENT.	0.0	30.1	75.2	78.8	0.0	30.0	239.9	21.0	71.0
48-SPECIAL MACHINERY & EQUIPMENT.	50.0	24.5	87.2	65.2	0.0	204.9	560.6	125.3	10.3
49-GENERAL MACHINERY & EQUIPMENT.	0.0	120.0	67.4	37.1	0.0	36.0	283.3	196.9	15.3
50-MACHINE SHOP PRODUCTS.....	30.0	3.3	191.8	78.8	9.2	53.3	87.7	146.6	105.4
51-OFFICE, COMPUTING MACHINES....	0.0	23.9	214.4	4.7	6.0	69.1	36.8	61.3	0.0
52-SERVICE INDUSTRY MACHINES.....	34.5	15.2	48.8	45.5	0.0	66.3	31.3	120.0	23.8
53-ELECTRIC TRANSMISSION EQUIP...	0.0	28.6	68.5	72.4	0.0	395.4	69.0	397.5	245.5
54-HOUSEHOLD APPLIANCES.....	25.9	4.8	10.7	5.8	0.0	383.3	60.4	13.6	13.1
55-ELECTRIC LIGHTING EQUIPMENT...	0.0	24.3	47.6	29.5	0.0	250.1	46.7	6.2	726.7
56-RADIO, TV, ETC EQUIPMENT.....	0.0	119.1	264.3	246.0	2.8	278.6	3.3	197.0	16.9
57-ELECTRONIC COMPONENTS.....	6.4	87.5	190.7	40.3	0.0	195.6	101.6	102.2	61.2
58-MISC ELECTRICAL MACHINERY.....	21.7	30.2	69.5	46.7	0.0	323.1	34.0	0.0	0.0
59-MOTOR VEHICLES, EQUIPMENT.....	443.6	35.3	220.7	491.7	0.0	36.4	26.4	122.1	385.6
60-AIRCRAFT & PARTS.....	5.6	160.9	1346.6	381.6	0.0	2.6	0.0	1.6	0.0
61-OTHER TRANSPORT EQUIPMENT.....	0.0	217.3	1665.2	198.5	0.0	25.9	51.2	186.5	368.4
62-PROFESSIONAL, SCIENT EQUIP....	111.5	0.0	31.1	74.7	0.0	720.6	323.4	70.7	4.6
63-MEDICAL, PHOTOG EQUIPMENT.....	0.0	0.0	0.0	27.5	1.6	39.5	96.0	31.2	0.8
64-MISC MANUFACTURING.....	3.4	81.1	34.9	34.7	5.6	270.8	228.3	168.2	59.5
65-TRANSPORT & WAREHOUSING.....									
*.01-RAILROADS & RELATED SVCES..									
*.02-LAND PASSENGER TRANSPORT...									
*.03-MOTOR FREIGHT TRANSPORT....									
*.04-WATER TRANSPORT.....									
*.05-AIR TRANSPORT.....									
*.06-PIPELINES, EXC NATURAL GAS.	2.1	4.1	326.6	99.2	2.1	246.0	179.8	301.8	43.4
*.07-TRANSPORT SERVICES.....									
66-COMMUNIC, EXCL BROADCASTING...	104.4	1004.3	708.1	694.9	319.5	739.4	279.9	722.4	244.5
67-RADIO & TV BROADCASTING.....	12.2	287.7	170.0	132.2	138.2	189.8	98.6	149.4	66.2
68-ELEC, GAS, WATER, & SANIT SVC.	5174.3	109853.5	17051.5	2792.9	411.6	7953.4	19390.0	10128.8	18271.8
*.01-ELECTRIC UTILITIES.....	3755.3	107795.4	9444.6	70.3	0.0	2063.5	16191.3	1593.5	362.2
*.02-GAS UTILITIES.....	0.0	397.0	6435.0	1723.5	201.3	4570.5	2525.9	7337.0	17436.5
*.03-WATER & SANITARY SERVICES..	1419.0	1661.2	1171.9	999.0	210.3	1319.3	672.9	1198.3	473.1
69-WHOLESALE & RETAIL TRADE.....	2151.2	20628.1	15186.1	11724.1	3838.1	14385.1	5813.9	12022.1	3930.8
70-FINANCE & INSURANCE.....	306.4	2286.1	1552.8	1207.5	741.9	1287.3	496.1	1203.6	368.2
71-REAL ESTATE & RENTAL.....	330.1	4484.6	2023.5	2819.5	1038.4	1845.2	872.1	2636.7	605.8
72-HOTELS, REPAIR SVC,EXC AUTO...	242.0	5104.9	2190.7	1821.1	1102.5	4439.9	991.6	2048.2	647.9
73-BUSINESS SERVICES.....	306.9	4345.0	2236.2	2851.5	2284.7	1359.6	716.8	1894.5	518.0
75-AUTO REPAIR & SERVICES.....	28.3	365.4	308.9	263.9	62.8	226.8	99.8	192.0	58.3
76-AMUSEMENTS.....	82.5	834.0	236.0	343.7	152.0	220.8	91.4	176.0	129.5
77-MED, ED SERV, NONPROF ORGAN...	989.5	9137.6	4541.4	6600.5	6972.6	6445.3	2075.6	5930.9	2294.3
78-FEDERAL GOVT ENTERPRISES.....	81.6	896.4	798.5	490.4	1044.8	637.7	310.8	614.7	195.6
79-STATE & LOCAL GOVT ENTERPRISE	315.9	9451.2	4743.8	2794.4	621.0	7800.2	1892.1	7807.8	1895.7
88-DOMESTIC FINAL DEMAND.....	7110.0	8210.0	70169.9	61869.9	14040.0	19610.0	13780.0	42770.0	54989.9
89- ** STATE TOTAL.....	53365.6	228029.4	241041.6	140292.9	36000.5	125490.9	107691.1	128328.4	176966.3

SEE FOOTNOTES AT END OF TABLE

INDUSTRY NUMBER AND TITLE	EAST SOUTH CENTRAL				WEST SOUTH CENTRAL			
	AL	KY	MS	TE	AS	LA	OK	TX
01-LIVESTOCK & LIVESTOCK PRODS...	267.4	264.8	245.2	247.6	242.7	145.1	314.3	796.7
02-OTHER AGRICULTURAL PRODS.....	108.8	246.9	206.2	151.3	249.4	199.0	162.9	813.5
03-FORESTRY & FISHERY PRODS.....	15.2	4.6	12.6	5.6	11.0	26.6	1.1	32.6
04-AG,FORESTRY, & FISHERY SVCES..	100.3	17.5	107.0	34.8	135.0	41.5	30.2	234.1
05-IRON & FERRO ORES MINING.....	701.2	74.0	0.0	102.7	0.0	0.0	0.0	137.2
06-NONFERROUS METAL ORES MINING..	102.1	68.3	66.2	343.3	441.0	0.0	105.6	76.0
07-COAL MINING.....	116.4	77.5	0.0	0.0	1.8	0.0	3.7	4.7
08-CRUDE PETROLEUM & NATURAL GAS.	1022.0	78.6	5517.9	0.0	5738.8	337855.8	28611.0	249814.4
09-STONE & CLAY MINING.....	565.7	872.7	264.2	1078.6	432.2	580.4	378.4	1692.8
10-CHEM & FERTILIZER MINERAL MNG.	3240.9	807.4	0.0	1098.9	1055.7	7298.3	0.0	5334.2
11-NEW CONSTRUCTION.....	186.1	263.5	143.8	249.6	158.5	455.1	217.1	980.7
12-MAINT & REPAIR CONSTRUCTION...	29.6	43.2	18.3	31.3	21.6	26.5	31.6	95.4
13-ORDNANCE & ACCESSORIES.....	242.5	0.0	41.1	153.2	90.5	310.1	113.4	1442.7
14-FOOD & KINDRED PRODUCTS.....	3919.9	4321.8	4617.7	11890.4	8122.1	23370.7	4325.2	27051.2
15-TOBACCO MANUFACTURES.....	14.1	1077.4	0.0	73.9	0.0	0.0	0.0	0.0
16-FABRICS.....	5830.6	218.9	413.3	2692.2	255.4	0.0	1.9	1319.7
17-TEXTILE PRODUCTS.....	1141.2	228.4	1387.1	1384.0	897.4	3.5	5.8	218.6
18-APPAREL.....	846.4	1038.8	1168.3	1496.5	142.5	82.2	84.8	1859.2
19-MISC TEXTILE PRODUCTS.....	206.6	405.9	338.6	406.5	9.5	143.6	26.7	521.3
20-LUMBER & WOOD PRODUCTS.....	1789.9	444.1	12206.5	1037.7	8051.3	5278.6	162.6	6001.4
21-WOODEN CONTAINERS.....	54.2	75.6	690.8	83.6	234.5	86.8	0.0	184.0
22-HOUSEHOLD FURNITURE.....	63.0	175.2	430.5	422.3	458.9	20.0	42.5	385.8
23-OTHER FURNITURE.....	40.1	46.5	83.3	199.7	248.5	5.1	51.8	446.8
24-PAPER & ALLIED PRODUCTS.....	31619.8	1864.6	30359.2	10059.2	28751.5	62462.5	577.8	20090.9
25-PAPERBOARD CONTAINERS.....	261.3	531.0	1497.0	690.4	858.8	2545.7	155.2	2469.4
26-PRINTING & PUBLISHING.....	438.7	452.0	94.8	1065.7	287.8	315.1	330.2	1084.8
27-CHEMICALS, SELECTED PRODUCTS..	40793.8	9992.8	32036.1	42235.7	75306.9	364788.8	2459.9	798567.6
28-PLASTICS & SYNTHETICS.....	4673.9	1800.6	1677.8	7044.4	0.0	18389.5	27.0	53035.6
29-DRUGS & COSMETICS.....	34.9	16.5	635.7	463.2	164.3	245.7	18.9	3749.0
30-PAINT & ALLIED PRODUCTS.....	144.9	240.0	0.0	22.8	84.2	362.1	58.6	3941.6
31-PETROLEUM, RELATED INDUSTRIES.	1841.6	11994.6	15851.8	2899.8	10719.2	107691.9	45969.4	499930.4
*.01-PETROLEUM REFINING & PRODS.	1100.0	11633.4	15851.8	2290.7	10356.6	107160.1	45814.9	497968.1
*.02-PAVING MIXTURES & BLOCKS...	344.8	331.0	0.0	360.3	184.5	153.4	0.0	660.3
*.03-ASPHALT FELTS & COATINGS...	396.8	30.1	0.0	248.8	178.1	378.4	154.5	1302.4
32-RUBBER, MISC PLASTICS.....	3054.4	469.8	958.3	3520.9	1071.6	51.8	850.2	2289.7
33-LEATHER TANNING & PRODUCTS....	0.0	88.3	0.0	118.1	0.0	0.0	0.0	11.3
34-FOOTWEAR, LEATHER PRODUCTS....	52.6	100.9	102.9	310.5	220.5	0.0	12.9	110.4
35-GLASS & GLASS PRODUCTS.....	936.9	675.5	1430.0	8507.8	2427.5	2729.8	10298.0	7214.3
36-STONE & CLAY PRODUCTS.....	23961.8	4208.4	7894.8	7158.0	7955.5	13092.0	7881.1	64387.3
37-PRIMARY IRON, STEEL MFG.....	34719.0	16433.0	608.1	3543.1	292.6	10444.0	3313.5	52132.6
38-PRIMARY NONFERROUS MFG.....	12682.5	6150.3	662.5	6794.5	4771.8	32861.2	3942.9	46581.4
39-METAL CONTAINERS.....	66.3	101.1	30.2	101.7	0.0	246.5	0.0	1250.6
40-FABRICATED METAL PRODUCTS.....	1449.6	1757.8	357.0	1786.1	458.9	508.8	1016.9	4448.7
41-SCREW MACHINE PRODUCTS, ETC...	200.0	376.6	99.2	174.8	49.7	13.8	26.7	198.2

INDUSTRY NUMBER AND TITLE	AL	KY	MS	TE	AS	LA	OK	TX
42-OTHER FABRICATED METAL PRODS..	621.0	1767.0	147.7	837.3	364.9	134.5	243.1	2792.7
43-ENGINES & TURBINES.....	6.3	0.0	0.0	16.6	0.0	0.0	6.8	25.9
44-FARM MACHINERY & EQUIPMENT....	61.6	391.5	355.4	314.7	44.5	91.8	47.6	199.0
45-CONSTRUCTION MACH & EQUIPMENT.	30.3	24.4	164.9	72.0	0.0	134.6	752.0	3334.5
46-MATERIALS HAND MACH & EQUIP...	27.1	58.4	106.8	102.1	58.9	0.0	0.0	178.9
47-METALWORKING MACH & EQUIPMENT.	6.6	66.1	16.9	157.6	68.0	0.0	14.1	333.4
48-SPECIAL MACHINERY & EQUIPMENT.	32.9	67.1	63.3	170.4	7.8	39.1	58.7	316.3
49-GENERAL MACHINERY & EQUIPMENT.	22.0	317.6	296.7	193.6	107.7	58.4	414.3	870.0
50-MACHINE SHOP PRODUCTS.....	40.6	195.5	101.2	341.5	81.7	206.6	135.8	891.9
51-OFFICE, COMPUTING MACHINES....	1.3	275.5	0.0	0.0	22.4	0.0	37.7	30.7
52-SERVICE INDUSTRY MACHINES.....	66.1	277.9	97.6	248.7	107.9	44.7	63.0	1277.8
53-ELECTRIC TRANSMISSION EQUIP...	220.5	319.3	408.2	456.7	270.1	0.0	37.1	320.8
54-HOUSEHOLD APPLIANCES.....	0.0	1155.7	306.3	1444.1	212.0	136.2	0.0	27.9
55-ELECTRIC LIGHTING EQUIPMENT...	203.6	280.1	562.7	513.4	119.1	0.0	0.0	141.7
56-RADIO, TV, ETC EQUIPMENT.....	92.9	109.0	17.0	1165.1	101.6	186.3	179.0	521.2
57-ELECTRONIC COMPONENTS.....	94.8	168.3	30.7	86.5	13.1	96.5	15.5	497.7
58-MISC ELECTRICAL MACHINERY.....	87.1	27.5	25.4	148.7	0.0	29.4	15.4	140.6
59-MOTOR VEHICLES, EQUIPMENT.....	225.7	943.9	117.5	592.8	11.4	18.9	200.2	1568.5
60-AIRCRAFT & PARTS.....	188.9	0.0	34.9	377.0	2.5	24.7	658.9	3880.7
61-OTHER TRANSPORT EQUIPMENT.....	381.2	177.2	92.4	414.5	19.2	254.5	83.3	515.6
62-PROFESSIONAL, SCIENT EQUIP....	6.1	109.5	31.3	334.4	7.6	4.9	8.9	275.6
63-MEDICAL, PHOTOG EQUIPMENT.....	0.0	0.0	0.0	0.0	81.6	1.4	0.0	47.9
64-MISC MANUFACTURING.....	103.8	239.7	342.3	283.2	252.0	49.1	61.1	284.1
65-TRANSPORT & WAREHOUSING.....								
*.01-RAILROADS & RELATED SVCES..								
*.02-LAND PASSENGER TRANSPORT...								
*.03-MOTOR FREIGHT TRANSPORT....								
*.04-WATER TRANSPORT.....								
*.05-AIR TRANSPORT.....								
*.06-PIPELINES, EXC NATURAL GAS.	425.8	136.4	570.5	99.2	318.3	1182.0	1304.0	4984.1
*.07-TRANSPORT SERVICES.....								
66-COMMUNIC, EXCL BROADCASTING...	455.3	398.6	223.5	634.1	159.9	570.8	305.1	2292.5
67-RADIO & TV BROADCASTING.....	129.1	108.2	45.9	189.0	52.7	125.7	100.2	484.1
68-ELEC, GAS, WATER, & SANIT SVC.	25095.7	31326.7	131157.6	54723.7	64294.8	291288.9	174903.9	894231.8
*.01-ELECTRIC UTILITIES.....	8299.6	228.2	79623.1	30417.9	51216.1	230860.1	159442.6	815725.7
*.02-GAS UTILITIES.....	15876.1	30252.2	50940.4	23275.6	12574.0	59477.5	14798.9	75595.2
*.03-WATER & SANITARY SERVICES..	919.9	846.4	594.0	1030.3	504.7	951.5	662.4	2911.2
69-WHOLESALE & RETAIL TRADE.....	8095.6	7657.7	4596.4	12074.1	4352.8	10400.1	7369.9	36625.2
70-FINANCE & INSURANCE.....	812.1	716.9	413.1	1199.7	426.3	1032.9	887.7	4462.0
71-REAL ESTATE & RENTAL.....	1160.3	1115.3	581.7	1515.2	612.1	1451.4	1137.7	5538.7
72-HOTELS, REPAIR SVC,EXC AUTO...	1233.7	1300.5	775.9	1664.0	707.9	1472.7	1346.5	6011.0
73-BUSINESS SERVICES.....	1337.2	822.4	443.0	1993.9	374.5	1560.3	958.4	6391.6
75-AUTO REPAIR & SERVICES.....	140.7	118.1	114.1	183.0	75.3	205.0	125.2	599.9
76-AMUSEMENTS.....	70.0	181.1	52.0	191.0	84.8	203.8	119.3	630.7
77-MED, ED SERV, NONPROF ORGAN...	3460.7	4008.0	1567.0	5837.7	1809.9	4534.9	3479.7	15235.1
78-FEDERAL GOVT ENTERPRISES.....	787.5	672.9	219.6	1285.0	230.7	959.1	409.7	1612.1
79-STATE & LOCAL GOVT ENTERPRISE	6564.9	2173.5	2171.3	10426.0	1214.1	3132.2	2173.5	14244.9
88-DOMESTIC FINAL DEMAND.....	48120.0	73009.9	27190.0	38700.0	40400.0	66279.9	67659.9	206769.8
89- ** STATE TOTAL.....	277944.7	198822.4	295694.5	258666.5	277486.9	1378580.0	376920.7	3079515.0

SEE FOOTNOTES AT END OF TABLE

INDUSTRY NUMBER AND TITLE	MOUNTAIN AZ	CO	ID	MT	NV	NM	UT	WY
01-LIVESTOCK & LIVESTOCK PRODS...	99.9	266.9	141.7	187.1	33.2	112.7	73.4	96.4
02-OTHER AGRICULTURAL PRODS.....	182.8	124.9	175.8	129.1	10.4	74.8	30.2	23.3
03-FORESTRY & FISHERY PRODS.....	3.4	1.8	14.1	11.0	0.3	2.4	0.5	1.0
04-AG,FORESTRY, & FISHERY SVCES..	35.2	19.6	18.0	14.5	2.2	14.5	8.7	5.5
05-IRON & FERRO ORES MINING.....	0.0	1936.1	137.7	164.0	297.0	987.6	1584.7	268.4
06-NONFERROUS METAL ORES MINING..	10028.1	1481.0	1054.8	645.5	1542.1	2323.5	1688.2	697.0
07-COAL MINING.....	0.0	33.7	0.0	2.3	0.0	7.3	40.4	0.0
08-CRUDE PETROLEUM & NATURAL GAS.	4009.1	4324.3	0.0	3066.4	628.9	35216.7	0.0	17763.9
09-STONE & CLAY MINING.....	128.5	238.0	217.4	161.8	67.4	132.4	212.5	136.1
10-CHEM & FERTILIZER MINERAL MNG.	1123.2	2854.3	407.8	2738.7	828.6	15399.7	1863.9	2606.9
11-NEW CONSTRUCTION.....	118.8	174.5	49.2	87.2	41.1	96.6	64.3	35.4
12-MAINT & REPAIR CONSTRUCTION...	15.5	22.5	10.3	12.5	10.3	14.0	9.3	9.2
13-ORDNANCE & ACCESSORIES.....	206.9	72.1	4.9	0.0	4.9	52.3	36.7	0.0
14-FOOD & KINDRED PRODUCTS.....	1879.8	10483.8	10534.6	3707.4	228.1	526.2	1814.7	2076.1
15-TOBACCO MANUFACTURES.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16-FABRICS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17-TEXTILE PRODUCTS.....	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
18-APPAREL.....	56.8	15.0	0.0	0.0	0.0	5.9	37.2	0.0
19-MISC TEXTILE PRODUCTS.....	8.8	24.3	0.0	0.0	0.0	14.7	15.6	0.0
20-LUMBER & WOOD PRODUCTS.....	234.1	161.9	2140.8	1102.1	41.0	206.5	99.4	101.2
21-WOODEN CONTAINERS.....	0.0	21.7	0.0	0.0	0.0	0.0	0.0	0.0
22-HOUSEHOLD FURNITURE.....	12.8	16.0	2.2	0.0	3.5	2.4	8.5	0.0
23-OTHER FURNITURE.....	8.2	21.1	0.0	0.0	0.0	0.0	11.8	0.0
24-PAPER & ALLIED PRODUCTS.....	533.3	168.6	1234.3	392.3	0.0	0.0	82.9	0.0
25-PAPERBOARD CONTAINERS.....	53.0	66.8	0.0	0.0	0.0	0.0	25.3	0.0
26-PRINTING & PUBLISHING.....	242.0	289.8	55.8	58.0	71.3	65.6	137.5	26.1
27-CHEMICALS, SELECTED PRODUCTS..	864.5	2838.2	5031.8	1598.2	4888.5	1234.9	733.2	1123.4
28-PLASTICS & SYNTHETICS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29-DRUGS & COSMETICS.....	6.0	18.0	0.0	0.0	0.0	0.0	18.3	0.0
30-PAINT & ALLIED PRODUCTS.....	15.8	32.3	0.0	0.0	0.0	0.0	0.0	0.0
31-PETROLEUM, RELATED INDUSTRIES.	0.0	2015.5	0.0	3481.5	0.0	2657.7	6225.2	8887.8
*.01-PETROLEUM REFINING & PRODS.	0.0	2015.5	0.0	3481.5	0.0	2657.7	5681.5	8887.8
*.02-PAVING MIXTURES & BLOCKS...	0.0	0.0	0.0	0.0	0.0	0.0	491.3	0.0
*.03-ASPHALT FELTS & COATINGS...	0.0	0.0	0.0	0.0	0.0	0.0	52.4	0.0
32-RUBBER, MISC PLASTICS.....	72.3	1107.8	0.0	0.0	0.0	18.6	84.8	0.0
33-LEATHER TANNING & PRODUCTS....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34-FOOTWEAR, LEATHER PRODUCTS....	0.0	122.6	0.0	0.0	0.0	0.0	0.0	0.0
35-GLASS & GLASS PRODUCTS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36-STONE & CLAY PRODUCTS.....	5678.5	11343.2	2012.0	3337.0	4321.2	2841.1	3141.0	885.9
37-PRIMARY IRON, STEEL MFG.....	5434.5	2538.6	0.0	0.0	0.0	0.0	19886.8	0.0
38-PRIMARY NONFERROUS MFG.....	16796.0	35.4	1448.3	3448.5	1735.4	454.5	4029.8	131.2
39-METAL CONTAINERS.....	0.0	213.6	0.0	0.0	0.0	0.0	28.8	0.0
40-FABRICATED METAL PRODUCTS.....	618.7	432.3	31.4	16.8	13.8	24.0	159.9	3.1
41-SCREW MACHINE PRODUCTS, ETC...	0.0	31.8	0.0	0.0	0.0	0.0	0.0	0.0

INDUSTRY NUMBER AND TITLE	AZ	CO	ID	MT	NV	NM	UT	WY
42-OTHER FABRICATED METAL PRODS..	213.6	420.5	6.1	0.0	0.0	0.0	2.9	0.0
43-ENGINES & TURBINES.....	39.5	54.2	0.0	0.0	0.0	0.0	0.0	0.0
44-FARM MACHINERY & EQUIPMENT....	16.5	77.9	70.1	0.0	0.0	0.0	9.1	0.0
45-CONSTRUCTION MACH & EQUIPMENT.	0.0	291.2	40.3	0.0	0.0	0.0	75.0	0.0
46-MATERIALS HAND MACH & EQUIP...	4.5	12.4	0.0	0.0	0.0	0.0	0.0	0.0
47-METALWORKING MACH & EQUIPMENT.	23.4	19.6	0.0	0.0	0.0	0.0	0.0	0.0
48-SPECIAL MACHINERY & EQUIPMENT.	5.7	36.4	0.0	0.0	0.0	0.0	8.1	0.0
49-GENERAL MACHINERY & EQUIPMENT.	10.3	143.9	0.0	0.0	0.0	0.0	93.8	0.0
50-MACHINE SHOP PRODUCTS.....	110.1	138.3	12.3	29.0	0.0	64.5	42.7	0.0
51-OFFICE, COMPUTING MACHINES....	142.4	399.5	0.0	0.0	4.8	0.0	0.0	0.0
52-SERVICE INDUSTRY MACHINES.....	49.9	37.9	0.0	0.0	0.0	0.0	18.0	0.0
53-ELECTRIC TRANSMISSION EQUIP...	18.3	200.2	0.0	0.0	3.9	0.0	0.0	0.0
54-HOUSEHOLD APPLIANCES.....	0.0	23.8	0.0	0.0	0.0	0.0	0.0	0.0
55-ELECTRIC LIGHTING EQUIPMENT...	12.0	16.8	0.0	0.0	0.0	0.0	0.0	0.0
56-RADIO, TV, ETC EQUIPMENT.....	95.8	11.8	0.0	0.0	0.0	9.7	55.7	0.0
57-ELECTRONIC COMPONENTS.....	339.8	25.6	8.4	0.0	0.0	11.7	39.9	0.0
58-MISC ELECTRICAL MACHINERY.....	0.0	14.2	0.0	0.0	0.0	9.1	0.0	0.0
59-MOTOR VEHICLES, EQUIPMENT.....	1.4	11.7	0.0	0.0	0.0	0.0	5.7	0.0
60-AIRCRAFT & PARTS.....	81.2	55.6	0.0	0.0	0.0	0.0	61.6	1.4
61-OTHER TRANSPORT EQUIPMENT.....	4.2	2.8	14.6	0.0	0.0	0.0	3.6	0.0
62-PROFESSIONAL, SCIENT EQUIP....	112.7	34.0	0.0	0.0	0.0	5.9	3.3	0.0
63-MEDICAL, PHOTOG EQUIPMENT.....	1.5	2.2	0.0	0.0	0.0	0.0	1.0	0.0
64-MISC MANUFACTURING.....	27.5	59.3	9.6	5.4	7.1	19.3	29.7	0.0
65-TRANSPORT & WAREHOUSING.....								
*.01-RAILROADS & RELATED SVCES..								
*.02-LAND PASSENGER TRANSPORT...								
*.03-MOTOR FREIGHT TRANSPORT....								
*.04-WATER TRANSPORT.....								
*.05-AIR TRANSPORT.....								
*.06-PIPELINES, EXC NATURAL GAS.	150.9	155.0	45.5	181.9	18.6	353.0	157.1	518.8
*.07-TRANSPORT SERVICES.....								
66-COMMUNIC, EXCL BROADCASTING...	136.8	175.1	134.0	52.4	86.2	89.2	94.2	24.6
67-RADIO & TV BROADCASTING.....	79.7	94.2	22.1	23.0	24.6	50.5	39.6	10.7
68-ELEC, GAS, WATER, & SANIT SVC.	69430.1	34564.4	2281.7	18759.1	50212.6	32174.1	580.7	4595.3
*.01-ELECTRIC UTILITIES.....	44157.9	32333.5	654.1	17788.0	50067.6	6405.6	66.8	0.0
*.02-GAS UTILITIES.....	24836.0	1684.3	1443.6	781.8	24.1	25500.4	240.6	4511.1
*.03-WATER & SANITARY SERVICES..	436.3	546.7	184.0	189.3	120.9	268.1	273.3	84.1
69-WHOLESALE & RETAIL TRADE.....	4885.4	6270.7	2103.0	2063.8	1593.9	2577.0	2583.5	815.9
70-FINANCE & INSURANCE.....	603.6	807.1	172.2	179.0	153.0	221.5	267.8	74.3
71-REAL ESTATE & RENTAL.....	1071.5	1197.7	291.2	277.3	357.3	454.5	483.3	138.0
72-HOTELS, REPAIR SVC,EXC AUTO...	1054.6	1051.7	366.3	295.4	1681.2	469.9	361.4	247.4
73-BUSINESS SERVICES.....	1026.1	1093.3	305.6	188.8	588.2	1150.2	417.2	81.8
75-AUTO REPAIR & SERVICES.....	102.6	109.6	35.6	33.3	36.2	48.4	50.2	16.4
76-AMUSEMENTS.....	117.2	170.2	34.9	27.9	701.9	60.4	61.3	20.9
77-MED, ED SERV, NONPROF ORGAN...	2931.8	3662.8	771.7	1048.9	439.8	1187.1	1737.8	276.2
78-FEDERAL GOVT ENTERPRISES.....	247.3	311.0	90.1	139.7	74.7	132.8	111.0	44.0
79-STATE & LOCAL GOVT ENTERPRISE	2906.3	2477.9	953.3	907.8	318.7	665.3	1400.9	288.1
88-DOMESTIC FINAL DEMAND.....	26810.0	66519.9	6160.0	21860.0	5940.0	22030.0	42550.0	11420.0
89- ** STATE TOTAL.....	161330.6	164299.4	38651.1	70434.5	77011.9	124270.3	93499.3	53451.6

SEE FOOTNOTES AT END OF TABLE

INDUSTRY NUMBER AND TITLE	PACIFIC					U. S. TOTAL
	AK	CA	OR	WA	HA	US
01-LIVESTOCK & LIVESTOCK PRODS...	1.7	759.8	143.9	156.4	0.0	13680.0
02-OTHER AGRICULTURAL PRODS.....	0.7	1387.5	173.2	300.8	0.0	12270.0
03-FORESTRY & FISHERY PRODS.....	25.1	70.1	77.7	42.5	0.0	526.0
04-AG,FORESTRY, & FISHERY SVCES..	0.4	214.5	22.6	26.3	0.0	2104.0
05-IRON & FERRO ORES MINING.....	0.0	63.4	62.6	62.9	0.0	36000.0
06-NONFERROUS METAL ORES MINING..	549.7	769.1	115.6	107.4	0.0	26005.0
07-COAL MINING.....	0.0	0.0	0.0	0.0	0.0	1672.0
08-CRUDE PETROLEUM & NATURAL GAS.	943.4	37881.8	0.0	0.0	0.0	758099.8
09-STONE & CLAY MINING.....	88.6	3037.8	768.7	757.6	0.0	40580.0
10-CHEM & FERTILIZER MINERAL MNG.	0.0	20429.4	412.1	0.0	0.0	95399.9
11-NEW CONSTRUCTION.....	63.3	1436.3	160.9	327.8	0.0	15605.0
12-MAINT & REPAIR CONSTRUCTION...	2.9	239.2	28.1	41.3	0.0	2103.7
13-ORDNANCE & ACCESSORIES.....	0.0	2847.3	0.0	1909.7	0.0	14377.0
14-FOOD & KINDRED PRODUCTS.....	97.8	74109.9	5974.1	11626.3	0.0	450519.8
15-TOBACCO MANUFACTURES.....	0.0	0.0	0.0	0.0	0.0	2782.0
16-FABRICS.....	0.0	223.8	5.1	1.3	0.0	60571.0
17-TEXTILE PRODUCTS.....	0.0	1932.4	1.7	0.0	0.0	18624.0
18-APPAREL.....	0.0	767.0	77.7	80.0	0.0	20058.0
19-MISC TEXTILE PRODUCTS.....	0.0	376.3	80.2	57.1	0.0	10521.0
20-LUMBER & WOOD PRODUCTS.....	109.9	6118.7	12380.4	2337.7	0.0	76221.9
21-WOODEN CONTAINERS.....	0.0	251.9	44.1	3.1	0.0	2279.0
22-HOUSEHOLD FURNITURE.....	0.0	430.8	47.1	42.4	0.0	6763.3
23-OTHER FURNITURE.....	0.0	571.3	14.8	29.2	0.0	9008.1
24-PAPER & ALLIED PRODUCTS.....	695.0	14086.6	18810.4	36720.3	0.0	374149.9
25-PAPERBOARD CONTAINERS.....	0.0	3001.7	269.3	1093.1	0.0	25100.0
26-PRINTING & PUBLISHING.....	22.9	4007.7	325.7	502.8	0.0	38457.0
27-CHEMICALS, SELECTED PRODUCTS..	0.0	42216.7	1316.4	15142.4	0.0	1711399.0
28-PLASTICS & SYNTHETICS.....	0.0	2652.5	129.3	166.2	0.0	117899.9
29-DRUGS & COSMETICS.....	0.0	2719.0	8.1	54.0	0.0	26710.0
30-PAINT & ALLIED PRODUCTS.....	0.0	1460.5	20.3	178.3	0.0	10000.0
31-PETROLEUM, RELATED INDUSTRIES.	1374.3	109087.3	1110.2	509.2	0.0	999239.9
*.01-PETROLEUM REFINING & PRODS.	1374.3	106592.6	815.4	0.0	0.0	968799.9
*.02-PAVING MIXTURES & BLOCKS...	0.0	1624.0	87.9	462.0	0.0	17250.0
*.03-ASPHALT FELTS & COATINGS...	0.0	870.7	206.9	47.1	0.0	13190.0
32-RUBBER, MISC PLASTICS.....	0.0	7323.4	106.2	165.7	0.0	57099.0
33-LEATHER TANNING & PRODUCTS....	0.0	158.2	0.0	0.0	0.0	3857.0
34-FOOTWEAR, LEATHER PRODUCTS....	0.0	174.5	3.5	6.4	0.0	6103.0
35-GLASS & GLASS PRODUCTS.....	0.0	21640.3	1075.2	129.3	0.0	199509.9
36-STONE & CLAY PRODUCTS.....	0.0	78296.5	4057.8	1133.0	0.0	504049.8
37-PRIMARY IRON, STEEL MFG.....	0.0	27935.7	599.9	2201.6	0.0	917499.8
38-PRIMARY NONFERROUS MFG.....	0.0	13704.5	664.2	10036.9	0.0	345539.8
39-METAL CONTAINERS.....	0.0	2597.9	153.7	197.8	0.0	16353.0
40-FABRICATED METAL PRODUCTS.....	0.0	5110.2	372.2	353.2	0.0	59239.0
41-SCREW MACHINE PRODUCTS, ETC...	0.0	1424.1	14.5	13.7	0.0	27053.0

INDUSTRY NUMBER AND TITLE	AK	CA	OR	WA	HA	US
42-OTHER FABRICATED METAL PRODS..	0.0	4343.7	223.6	78.3	0.0	54136.0
43-ENGINES & TURBINES.....	0.0	203.4	0.0	0.0	0.0	6531.0
44-FARM MACHINERY & EQUIPMENT....	0.0	215.3	24.2	41.5	0.0	16230.0
45-CONSTRUCTION MACH & EQUIPMENT.	0.0	574.8	44.9	124.7	0.0	20099.0
46-MATERIALS HAND MACH & EQUIP...	0.0	189.6	99.9	14.5	0.0	4628.1
47-METALWORKING MACH & EQUIPMENT.	0.0	735.9	7.8	47.8	0.0	20172.0
48-SPECIAL MACHINERY & EQUIPMENT.	0.0	526.4	74.8	95.7	0.0	9123.6
49-GENERAL MACHINERY & EQUIPMENT.	0.0	1057.1	16.5	60.7	0.0	21768.0
50-MACHINE SHOP PRODUCTS.....	0.0	1919.5	71.6	339.5	0.0	15100.0
51-OFFICE, COMPUTING MACHINES....	0.0	597.1	0.0	4.6	0.0	4827.4
52-SERVICE INDUSTRY MACHINES.....	0.0	390.6	19.4	18.2	0.0	10396.0
53-ELECTRIC TRANSMISSION EQUIP...	0.0	1670.3	393.7	95.3	0.0	24746.0
54-HOUSEHOLD APPLIANCES.....	0.0	393.4	17.8	19.2	0.0	19185.0
55-ELECTRIC LIGHTING EQUIPMENT...	0.0	680.6	0.0	58.5	0.0	13802.0
56-RADIO, TV, ETC EQUIPMENT.....	0.0	2137.9	9.6	59.3	0.0	15343.0
57-ELECTRONIC COMPONENTS.....	0.0	2073.6	44.4	7.6	0.0	15384.0
58-MISC ELECTRICAL MACHINERY.....	0.0	329.0	35.1	7.7	0.0	9366.2
59-MOTOR VEHICLES, EQUIPMENT.....	0.0	4185.4	56.2	120.8	0.0	79824.9
60-AIRCRAFT & PARTS.....	0.0	7148.3	28.3	3539.7	0.0	32071.0
61-OTHER TRANSPORT EQUIPMENT.....	0.0	876.4	76.0	396.4	0.0	12046.0
62-PROFESSIONAL, SCIENT EQUIP....	0.0	765.4	4.6	3.5	0.0	10991.0
63-MEDICAL, PHOTOG EQUIPMENT.....	0.0	346.9	34.1	7.6	0.0	5175.4
64-MISC MANUFACTURING.....	0.0	857.7	67.8	69.7	0.0	14974.0
65-TRANSPORT & WAREHOUSING.....						70642.9
*.01-RAILROADS & RELATED SVCES..						21570.0
*.02-LAND PASSENGER TRANSPORT...						4208.0
*.03-MOTOR FREIGHT TRANSPORT....						11220.0
*.04-WATER TRANSPORT.....						3857.0
*.05-AIR TRANSPORT.....						8767.0
*.06-PIPELINES, EXC NATURAL GAS.	24.8	845.4	24.8	97.2	0.0	20670.0
*.07-TRANSPORT SERVICES.....						350.7
66-COMMUNIC, EXCL BROADCASTING...	18.5	4962.6	377.7	661.3	0.0	36470.0
67-RADIO & TV BROADCASTING.....	14.0	2410.6	92.9	154.2	0.0	12800.0
68-ELEC, GAS, WATER, & SANIT SVC.	3229.4	654978.2	2853.8	3432.7	0.0	3495999.0
*.01-ELECTRIC UTILITIES.....	3155.8	630620.4	343.8	0.0	0.0	2844999.0
*.02-GAS UTILITIES.....	0.0	19248.6	1984.3	2586.3	0.0	597399.9
*.03-WATER & SANITARY SERVICES..	73.6	5109.4	525.7	846.4	0.0	53830.0
69-WHOLESALE & RETAIL TRADE.....	753.1	76705.4	8119.3	11899.1	0.0	699909.7
70-FINANCE & INSURANCE.....	53.0	11085.0	767.5	1286.8	0.0	93274.9
71-REAL ESTATE & RENTAL.....	220.2	17823.0	1188.2	2408.5	0.0	120799.9
72-HOTELS, REPAIR SVC,EXC AUTO...	144.8	13978.0	1222.0	1719.9	0.0	115379.9
73-BUSINESS SERVICES.....	151.9	22014.9	1094.6	2004.5	0.0	159029.9
75-AUTO REPAIR & SERVICES.....	11.8	1417.1	138.7	198.7	0.0	10700.0
76-AMUSEMENTS.....	16.9	4344.7	131.8	246.9	0.0	21920.0
77-MED, ED SERV, NONPROF ORGAN...	313.9	43791.2	3979.3	6204.1	0.0	397739.7
78-FEDERAL GOVT ENTERPRISES.....	149.0	3599.8	650.1	771.7	0.0	35590.0
79-STATE & LOCAL GOVT ENTERPRISE	303.2	33154.8	4495.5	14181.9	0.0	292799.7
88-DOMESTIC FINAL DEMAND.....	1580.0	556969.4	14270.0	23460.0	920.0	4362260.0
89- ** STATE TOTAL.....	10960.2	1971808.0	90383.4	160451.8	920.0	17476368.0

* NOTE: COUNT ONLY SUBSECTORS WITHIN I/O SECTORS 31, 65, AND 68 WHEN SUMMING COLUMNS.
** NOTE: COLUMNS MAY NOT SUM EXACTLY TO STATE TOTALS OR ROWS TO NATIONAL TOTALS DUE TO INDIVIDUAL ROUNDING.

APPENDIX I - COAL

(10**9 BTU). ONE UNIT IN THIS TABLE APPROXIMATES 38 TONS OF COAL

	NEW ENGLAND						MIDDLE ATLANTIC		
INDUSTRY NUMBER AND TITLE	CT	MA	RI	VT	ME	NH	NJ	NY	PA
01-LIVESTOCK & LIVESTOCK PRODS...	0.0	0.0	0.0	0.0	159.7	0.0	138.7	951.5	858.8
02-OTHER AGRICULTURAL PRODS.....	0.0	0.0	0.0	0.0	21.1	0.0	49.6	111.0	96.5
03-FORESTRY & FISHERY PRODS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
04-AG,FORESTRY, & FISHERY SVCES..	0.0	0.0	0.0	0.0	37.6	0.0	13.0	60.6	66.8
05-IRON & FERRO ORES MINING.....	0.0	0.0	0.0	0.0	0.0	0.0	3.2	46.2	63.6
06-NONFERROUS METAL ORES MINING..	0.0	0.0	0.0	0.0	0.0	0.0	11.9	118.6	11.5
07-COAL MINING.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2083.1
08-CRUDE PETROLEUM & NATURAL GAS.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	78.9
09-STONE & CLAY MINING.....	0.0	0.0	0.0	0.0	11.8	0.0	610.7	844.4	943.4
10-CHEM & FERTILIZER MINERAL MNG.	0.0	0.0	0.0	0.0	12.1	0.0	13.6	13.5	12.7
11-NEW CONSTRUCTION.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12-MAINT & REPAIR CONSTRUCTION...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13-ORDNANCE & ACCESSORIES.....	15.3	11.7	0.0	441.1	147.4	0.0	26.0	33.1	321.8
14-FOOD & KINDRED PRODUCTS.....	0.0	0.0	0.0	0.0	137.4	0.0	3032.0	10255.3	11967.7
15-TOBACCO MANUFACTURES.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	160.8
16-FABRICS.....	49.1	422.2	97.1	1.0	106.1	606.4	294.1	792.8	2230.6
17-TEXTILE PRODUCTS.....	16.3	154.9	16.8	0.0	6.4	38.9	147.3	435.9	899.7
18-APPAREL.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	238.7	2344.4
19-MISC TEXTILE PRODUCTS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.4	578.5
20-LUMBER & WOOD PRODUCTS.....	0.0	0.0	0.0	292.0	0.0	0.0	0.0	29.3	1364.2
21-WOODEN CONTAINERS.....	0.0	0.0	0.0	11.2	0.0	0.0	0.0	1.2	39.4
22-HOUSEHOLD FURNITURE.....	0.0	314.6	0.0	41.3	0.0	0.0	0.0	156.3	553.4
23-OTHER FURNITURE.....	0.0	118.6	0.0	0.0	0.0	0.0	0.0	203.1	567.4
24-PAPER & ALLIED PRODUCTS.....	1054.7	3767.9	0.0	1619.3	15054.5	9065.5	5103.5	26002.4	28012.5
25-PAPERBOARD CONTAINERS.....	13.0	27.2	0.0	12.6	5.8	16.7	77.3	251.9	338.9
26-PRINTING & PUBLISHING.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.3	652.2
27-CHEMICALS, SELECTED PRODUCTS..	487.7	0.0	0.0	0.0	0.0	0.0	12968.0	20339.5	18062.2
28-PLASTICS & SYNTHETICS.....	197.5	0.0	0.0	0.0	0.0	0.0	1822.2	2778.7	9685.1
29-DRUGS & COSMETICS.....	98.7	0.0	0.0	0.0	0.0	0.0	1212.8	3439.4	2090.3
30-PAINT & ALLIED PRODUCTS.....	0.6	0.0	0.0	0.0	0.0	0.0	43.6	72.8	77.8
31-PETROLEUM, RELATED INDUSTRIES.	0.0	0.0	0.0	0.0	0.0	0.0	4539.1	3060.0	5297.3
*.01-PETROLEUM REFINING & PRODS.	0.0	0.0	0.0	0.0	0.0	0.0	2652.6	391.8	3291.5
*.02-PAVING MIXTURES & BLOCKS...	0.0	0.0	0.0	0.0	0.0	0.0	1434.5	2668.2	1710.1
*.03-ASPHALT FELTS & COATINGS...	0.0	0.0	0.0	0.0	0.0	0.0	452.0	0.0	295.7
32-RUBBER, MISC PLASTICS.....	0.0	904.7	0.0	56.6	0.0	0.0	2273.7	4017.2	3512.3
33-LEATHER TANNING & PRODUCTS....	0.0	12.5	0.0	92.6	28.4	87.0	0.0	350.5	440.0
34-FOOTWEAR, LEATHER PRODUCTS....	0.0	2.4	0.0	2.8	13.8	42.1	0.0	219.7	193.3
35-GLASS & GLASS PRODUCTS.....	0.0	0.0	0.0	0.0	0.0	0.0	87.9	607.3	2262.6
36-STONE & CLAY PRODUCTS.....	0.0	0.0	0.0	0.0	0.0	0.0	2348.0	36249.1	61110.5
37-PRIMARY IRON, STEEL MFG.....	275.3	892.0	0.0	122.9	0.0	0.0	3066.0	23442.7	685857.4
38-PRIMARY NONFERROUS MFG.....	50.8	73.5	0.0	22.7	0.0	0.0	659.0	1733.8	6213.2
39-METAL CONTAINERS.....	0.0	3.4	0.0	0.0	8.8	0.0	165.9	65.2	252.2
40-FABRICATED METAL PRODUCTS.....	70.7	21.9	11.5	3.3	11.5	0.0	157.1	292.7	1477.4
41-SCREW MACHINE PRODUCTS, ETC...	428.2	50.6	45.1	2.4	0.0	0.0	250.1	522.9	1526.8

INDUSTRY NUMBER AND TITLE	CT	MA	RI	VT	ME	NH	NJ	NY	PA
42-OTHER FABRICATED METAL PRODS..	612.2	131.2	79.2	2.7	1.0	0.0	461.9	614.5	2028.7
43-ENGINES & TURBINES.....	8.0	139.9	0.0	0.0	0.0	0.0	41.6	1650.3	880.5
44-FARM MACHINERY & EQUIPMENT....	0.0	5.4	0.0	0.0	0.0	0.0	5.1	194.9	261.8
45-CONSTRUCTION MACH & EQUIPMENT.	0.0	3.5	0.0	0.0	0.0	21.5	25.9	198.3	554.4
46-MATERIALS HAND MACH & EQUIP...	0.3	9.4	0.0	0.0	0.0	0.0	27.4	232.0	193.2
47-METALWORKING MACH & EQUIPMENT.	16.1	59.2	46.7	0.0	0.0	7.9	27.9	367.5	243.0
48-SPECIAL MACHINERY & EQUIPMENT.	8.7	115.2	59.1	0.0	0.0	27.5	71.9	653.5	327.1
49-GENERAL MACHINERY & EQUIPMENT.	35.9	77.3	19.9	0.0	0.0	30.8	118.8	1310.4	757.6
50-MACHINE SHOP PRODUCTS.....	6.8	27.4	10.7	0.0	0.0	2.9	23.7	440.6	141.2
51-OFFICE, COMPUTING MACHINES....	8.7	92.5	0.0	0.0	0.0	4.0	33.6	1405.3	75.1
52-SERVICE INDUSTRY MACHINES.....	3.3	23.2	2.7	0.0	0.0	0.0	69.5	744.5	257.1
53-ELECTRIC TRANSMISSION EQUIP...	37.1	197.6	0.0	0.0	0.0	0.0	72.7	347.0	1907.0
54-HOUSEHOLD APPLIANCES.....	32.6	38.7	0.0	0.0	0.0	0.0	26.2	106.9	284.2
55-ELECTRIC LIGHTING EQUIPMENT...	26.1	158.3	0.0	0.0	0.0	0.0	84.2	188.3	650.7
56-RADIO, TV, ETC EQUIPMENT.....	17.4	320.2	0.0	0.0	0.0	0.0	201.4	458.0	763.9
57-ELECTRONIC COMPONENTS.....	15.0	133.7	0.0	0.4	0.1	0.0	49.6	344.9	609.4
58-MISC ELECTRICAL MACHINERY.....	5.4	40.6	0.0	0.0	0.0	0.0	25.5	49.7	197.4
59-MOTOR VEHICLES, EQUIPMENT.....	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3097.2	1616.0
60-AIRCRAFT & PARTS.....	4.7	0.0	0.0	0.0	18.6	0.0	0.0	2425.4	1757.0
61-OTHER TRANSPORT EQUIPMENT.....	0.6	0.0	0.0	0.0	75.2	0.0	0.0	432.1	1815.8
62-PROFESSIONAL, SCIENT EQUIP....	0.0	0.0	0.0	5.1	0.5	0.0	0.0	721.0	16.4
63-MEDICAL, PHOTOG EQUIPMENT.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64-MISC MANUFACTURING.....	22.0	40.6	0.0	91.0	62.1	4.3	221.6	427.6	550.9
65-TRANSPORT & WAREHOUSING.....									
*.01-RAILROADS & RELATED SVCES..									
*.02-LAND PASSENGER TRANSPORT...									
*.03-MOTOR FREIGHT TRANSPORT....									
*.04-WATER TRANSPORT.....									
*.05-AIR TRANSPORT.....									
*.06-PIPELINES, EXC NATURAL GAS.									
*.07-TRANSPORT SERVICES.....									
66-COMMUNIC, EXCL BROADCASTING...	0.0	0.0	0.0	0.0	11.5	0.0	136.5	369.9	160.8
67-RADIO & TV BROADCASTING.....	0.0	0.0	0.0	0.0	7.5	0.0	9.9	592.6	126.5
68-ELEC, GAS, WATER, & SANIT SVC.	98528.6	89676.9	6965.9	1045.6	0.0	10088.7	170124.8	402681.3	679403.9
*.01-ELECTRIC UTILITIES.....	98528.6	89676.9	6965.9	1045.6	0.0	10088.7	168638.4	398607.0	675879.1
*.02-GAS UTILITIES.....	0.0	0.0	0.0	0.0	0.0	0.0	31.3	305.7	1071.2
*.03-WATER & SANITARY SERVICES..	0.0	0.0	0.0	0.0	0.0	0.0	1455.0	3769.0	2453.9
69-WHOLESALE & RETAIL TRADE.....	0.0	0.0	0.0	0.0	73.6	0.0	814.4	2648.0	1092.2
70-FINANCE & INSURANCE.....	0.0	0.0	0.0	0.0	29.9	0.0	340.4	2557.3	555.9
71-REAL ESTATE & RENTAL.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72-HOTELS, REPAIR SVC,EXC AUTO...	0.0	0.0	0.0	0.0	167.5	0.0	1507.8	4689.2	2363.3
73-BUSINESS SERVICES.....	0.0	0.0	0.0	0.0	4.6	0.0	155.1	1172.6	206.2
75-AUTO REPAIR & SERVICES.....	0.0	0.0	0.0	0.0	9.6	0.0	82.7	225.7	132.6
76-AMUSEMENTS.....	0.0	0.0	0.0	0.0	3.5	0.0	43.2	439.9	51.2
77-MED, ED SERV, NONPROF ORGAN...	0.0	0.0	0.0	0.0	329.1	0.0	2654.2	11901.1	5503.2
78-FEDERAL GOVT ENTERPRISES.....	0.0	0.0	0.0	0.0	6.6	0.0	47.4	167.1	71.7
79-STATE & LOCAL GOVT ENTERPRISE.	0.0	0.0	0.0	0.0	64.3	0.0	233.5	1880.4	1055.7
88-DOMESTIC FINAL DEMAND.....	288.2	2620.0	314.4	314.4	445.4	314.4	262.0	4585.0	19650.0
89- ** STATE TOTAL.....	102436.2	100688.9	7669.2	4180.8	17073.1	20357.8	217114.3	588247.8	1578561.0

SEE FOOTNOTES AT END OF TABLE

INDUSTRY NUMBER AND TITLE	EAST NORTH CENTRAL				
	IL	IN	MN	OH	WI
01-LIVESTOCK & LIVESTOCK PRODS...	1472.8	1009.3	643.9	933.9	1523.1
02-OTHER AGRICULTURAL PRODS.....	597.0	271.3	152.9	220.2	93.9
03-FORESTRY & FISHERY PRODS.....	0.0	0.0	0.0	0.0	0.0
04-AG,FORESTRY, & FISHERY SVCES..	76.1	63.7	55.0	64.5	69.1
05-IRON & FERRO ORES MINING.....	0.0	0.0	320.3	0.0	0.0
06-NONFERROUS METAL ORES MINING..	4.9	0.0	258.3	0.0	33.9
07-COAL MINING.....	334.8	74.3	0.0	221.7	0.0
08-CRUDE PETROLEUM & NATURAL GAS.	253.6	25.3	24.2	90.1	0.0
09-STONE & CLAY MINING.....	806.3	452.8	430.3	864.4	434.4
10-CHEM & FERTILIZER MINERAL MNG.	44.4	11.5	35.1	12.0	0.0
11-NEW CONSTRUCTION.....	0.0	0.0	0.0	0.0	0.0
12-MAINT & REPAIR CONSTRUCTION...	0.0	0.0	0.0	0.0	0.0
13-ORDNANCE & ACCESSORIES.....	124.0	204.6	74.8	135.1	45.7
14-FOOD & KINDRED PRODUCTS.....	46435.0	13319.2	8836.8	13993.6	13844.5
15-TOBACCO MANUFACTURES.....	0.0	0.0	0.0	0.0	0.0
16-FABRICS.....	0.0	0.0	0.0	179.5	88.0
17-TEXTILE PRODUCTS.....	0.0	1.3	0.0	691.5	97.3
18-APPAREL.....	691.7	5.2	132.0	0.0	0.0
19-MISC TEXTILE PRODUCTS.....	753.0	4.4	2691.0	0.0	0.0
20-LUMBER & WOOD PRODUCTS.....	223.3	427.3	314.8	22.8	251.0
21-WOODEN CONTAINERS.....	10.9	8.6	7.1	0.6	9.4
22-HOUSEHOLD FURNITURE.....	340.2	1060.7	232.9	169.7	80.2
23-OTHER FURNITURE.....	399.0	300.8	548.5	277.5	84.7
24-PAPER & ALLIED PRODUCTS.....	7757.1	4315.6	37320.1	32447.9	60545.2
25-PAPERBOARD CONTAINERS.....	159.9	97.6	402.5	452.4	214.9
26-PRINTING & PUBLISHING.....	159.7	323.7	0.0	1205.8	90.7
27-CHEMICALS, SELECTED PRODUCTS..	17221.4	7150.7	50380.9	46697.5	2024.1
28-PLASTICS & SYNTHETICS.....	1529.1	586.1	11444.3	10605.2	345.1
29-DRUGS & COSMETICS.....	1582.6	1196.5	2706.6	2751.2	235.4
30-PAINT & ALLIED PRODUCTS.....	118.5	17.8	233.5	234.4	8.4
31-PETROLEUM, RELATED INDUSTRIES.	5890.4	3691.9	1950.5	5003.8	222.8
*.01-PETROLEUM REFINING & PRODS.	3749.0	2568.1	783.4	2528.3	95.1
*.02-PAVING MIXTURES & BLOCKS...	1097.5	988.5	1088.2	1947.0	127.6
*.03-ASPHALT FELTS & COATINGS...	1043.9	135.4	78.9	528.5	0.0
32-RUBBER, MISC PLASTICS.....	773.3	3022.1	3765.5	34470.7	1543.8
33-LEATHER TANNING & PRODUCTS....	27.6	628.9	0.0	205.0	1036.5
34-FOOTWEAR, LEATHER PRODUCTS....	6.4	171.7	0.0	42.8	87.4
35-GLASS & GLASS PRODUCTS.....	882.2	614.4	670.7	1402.8	24.6
36-STONE & CLAY PRODUCTS.....	28771.2	18411.1	28963.4	44947.5	5555.5
37-PRIMARY IRON, STEEL MFG.....	25989.9	155128.6	215830.5	792315.7	28856.9
38-PRIMARY NONFERROUS MFG.....	919.6	3791.5	4014.2	12629.4	591.2
39-METAL CONTAINERS.....	382.9	53.0	58.2	258.1	189.2
40-FABRICATED METAL PRODUCTS.....	586.0	568.8	505.3	1435.7	441.4
41-SCREW MACHINE PRODUCTS, ETC...	2181.3	1117.5	3660.9	4357.0	839.7

INDUSTRY NUMBER AND TITLE	IL	IN	MN	OH	WI
42-OTHER FABRICATED METAL PRODS..	2026.1	960.6	1825.5	3515.6	540.3
43-ENGINES & TURBINES.....	1562.9	1060.6	591.4	589.1	2374.3
44-FARM MACHINERY & EQUIPMENT....	5235.4	910.4	393.6	875.0	2343.8
45-CONSTRUCTION MACH & EQUIPMENT.	6023.8	411.4	353.5	1687.6	1390.3
46-MATERIALS HAND MACH & EQUIP...	499.0	57.0	142.0	457.1	178.5
47-METALWORKING MACH & EQUIPMENT.	826.4	154.5	399.8	1199.0	243.7
48-SPECIAL MACHINERY & EQUIPMENT.	655.1	198.9	115.2	647.3	366.6
49-GENERAL MACHINERY & EQUIPMENT.	1432.1	1019.6	255.1	1848.7	656.0
50-MACHINE SHOP PRODUCTS.....	431.6	172.6	149.8	380.7	117.3
51-OFFICE, COMPUTING MACHINES....	315.7	3.0	66.6	687.5	39.2
52-SERVICE INDUSTRY MACHINES.....	724.7	348.9	283.6	1060.1	311.0
53-ELECTRIC TRANSMISSION EQUIP...	585.4	1371.4	266.4	2315.3	753.7
54-HOUSEHOLD APPLIANCES.....	965.2	2121.4	427.1	4043.1	320.5
55-ELECTRIC LIGHTING EQUIPMENT...	412.9	736.2	52.4	1013.2	43.6
56-RADIO, TV, ETC EQUIPMENT.....	1327.4	2142.6	90.8	420.0	144.4
57-ELECTRONIC COMPONENTS.....	308.1	633.4	7.8	242.0	30.8
58-MISC ELECTRICAL MACHINERY.....	177.8	2073.5	298.0	622.6	89.5
59-MOTOR VEHICLES, EQUIPMENT.....	1910.7	7901.5	46827.0	12655.8	3785.7
60-AIRCRAFT & PARTS.....	216.4	1850.4	573.3	3200.9	21.5
61-OTHER TRANSPORT EQUIPMENT.....	1135.8	1866.9	671.8	704.8	330.5
62-PROFESSIONAL, SCIENT EQUIP....	95.2	0.0	21.5	0.0	40.5
63-MEDICAL, PHOTOG EQUIPMENT.....	0.0	0.0	0.0	0.0	0.0
64-MISC MANUFACTURING.....	441.9	212.9	198.3	386.4	60.9
65-TRANSPORT & WAREHOUSING.....					
*.01-RAILROADS & RELATED SVCES..					
*.02-LAND PASSENGER TRANSPORT...					
*.03-MOTOR FREIGHT TRANSPORT....					
*.04-WATER TRANSPORT.....					
*.05-AIR TRANSPORT.....					
*.06-PIPELINES, EXC NATURAL GAS.					
*.07-TRANSPORT SERVICES.....					
66-COMMUNIC, EXCL BROADCASTING...	207.3	117.5	135.6	125.0	52.1
67-RADIO & TV BROADCASTING.....	126.6	34.2	97.6	103.2	31.6
68-ELEC, GAS, WATER, & SANIT SVC.	677872.5	476926.8	516983.6	742517.4	210068.3
*.01-ELECTRIC UTILITIES.....	674707.1	475358.9	514772.4	739723.0	209039.1
*.02-GAS UTILITIES.....	864.8	506.8	399.8	606.2	125.4
*.03-WATER & SANITARY SERVICES..	2300.9	1061.3	1811.6	2188.3	903.8
69-WHOLESALE & RETAIL TRADE.....	1232.0	423.5	887.6	984.2	376.1
70-FINANCE & INSURANCE.....	603.2	187.2	354.0	401.1	161.6
71-REAL ESTATE & RENTAL.....	0.0	0.0	0.0	0.0	0.0
72-HOTELS, REPAIR SVC,EXC AUTO...	2386.8	859.9	1712.3	1862.7	763.7
73-BUSINESS SERVICES.....	325.3	44.7	194.2	168.4	54.5
75-AUTO REPAIR & SERVICES.....	117.5	48.3	111.0	111.2	41.9
76-AMUSEMENTS.....	68.1	16.2	49.1	56.1	15.9
77-MED, ED SERV, NONPROF ORGAN...	4371.0	1350.2	3133.4	3697.1	1528.2
78-FEDERAL GOVT ENTERPRISES.....	130.8	23.6	47.1	57.9	21.3
79-STATE & LOCAL GOVT ENTERPRISE.	672.2	243.4	910.0	988.3	161.9
88-DOMESTIC FINAL DEMAND.....	104799.9	28296.0	43230.0	56330.0	51090.0
89- ** STATE TOTAL.....	967726.9	752905.1	998515.4	1855289.0	398055.7

SEE FOOTNOTES AT END OF TABLE

INDUSTRY NUMBER AND TITLE	WEST NORTH CENTRAL						
	IA	KA	MI	MO	NB	ND	SD
01-LIVESTOCK & LIVESTOCK PRODS...	2833.2	0.0	1481.3	1256.2	0.0	0.0	0.0
02-OTHER AGRICULTURAL PRODS.....	417.0	0.0	277.8	155.1	0.0	0.0	0.0
03-FORESTRY & FISHERY PRODS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0
04-AG,FORESTRY, & FISHERY SVCES..	107.4	0.0	115.6	80.4	0.0	0.0	0.0
05-IRON & FERRO ORES MINING.....	2.9	0.0	852.9	59.1	0.0	0.0	0.0
06-NONFERROUS METAL ORES MINING..	0.0	0.0	0.0	109.8	0.0	0.0	0.0
07-COAL MINING.....	31.0	38.8	0.0	21.1	0.0	36.6	0.0
08-CRUDE PETROLEUM & NATURAL GAS.	0.0	0.0	3.8	35.7	0.0	0.0	0.0
09-STONE & CLAY MINING.....	386.4	0.0	152.0	424.7	0.0	0.0	0.0
10-CHEM & FERTILIZER MINERAL MNG.	11.1	0.0	11.6	44.7	0.0	0.0	0.0
11-NEW CONSTRUCTION.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12-MAINT & REPAIR CONSTRUCTION...	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13-ORDNANCE & ACCESSORIES.....	483.9	38.2	0.0	55.1	0.0	0.0	0.0
14-FOOD & KINDRED PRODUCTS.....	19991.0	0.0	9313.2	5939.3	4095.8	1398.0	48.4
15-TOBACCO MANUFACTURES.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16-FABRICS.....	0.3	0.0	0.0	19.4	0.0	0.0	0.0
17-TEXTILE PRODUCTS.....	0.0	0.0	0.0	12.1	0.0	0.0	0.0
18-APPAREL.....	0.0	0.0	0.0	39.7	0.0	0.0	0.0
19-MISC TEXTILE PRODUCTS.....	0.0	0.0	0.0	25.7	0.0	0.0	0.0
20-LUMBER & WOOD PRODUCTS.....	0.0	0.0	555.2	531.5	103.7	0.0	0.0
21-WOODEN CONTAINERS.....	0.0	0.0	14.8	40.0	0.0	0.0	0.0
22-HOUSEHOLD FURNITURE.....	0.0	0.0	0.0	0.0	2.2	0.0	0.0
23-OTHER FURNITURE.....	0.0	0.0	0.0	0.0	3.0	0.0	0.0
24-PAPER & ALLIED PRODUCTS.....	347.1	0.0	10123.7	0.0	0.0	0.0	0.0
25-PAPERBOARD CONTAINERS.....	8.4	0.0	34.7	0.0	0.0	0.0	0.0
26-PRINTING & PUBLISHING.....	0.0	0.0	335.0	0.0	0.0	0.0	0.0
27-CHEMICALS, SELECTED PRODUCTS..	1444.2	2759.3	575.3	8414.5	0.0	0.0	0.0
28-PLASTICS & SYNTHETICS.....	552.4	61.4	42.2	113.6	0.0	0.0	0.0
29-DRUGS & COSMETICS.....	104.7	193.2	51.0	692.3	0.0	0.0	0.0
30-PAINT & ALLIED PRODUCTS.....	7.5	1.5	1.5	37.4	0.0	0.0	0.0
31-PETROLEUM, RELATED INDUSTRIES.	0.0	0.0	1298.4	380.6	0.0	0.0	0.0
*.01-PETROLEUM REFINING & PRODS.	0.0	0.0	570.8	380.6	0.0	0.0	0.0
*.02-PAVING MIXTURES & BLOCKS...	0.0	0.0	603.2	0.0	0.0	0.0	0.0
*.03-ASPHALT FELTS & COATINGS...	0.0	0.0	124.4	0.0	0.0	0.0	0.0
32-RUBBER, MISC PLASTICS.....	26.5	342.0	69.0	13.2	123.5	0.0	0.0
33-LEATHER TANNING & PRODUCTS....	0.0	0.0	822.2	22.6	0.0	0.0	0.0
34-FOOTWEAR, LEATHER PRODUCTS....	26.5	0.0	98.6	75.1	0.0	0.0	0.0
35-GLASS & GLASS PRODUCTS.....	0.0	0.0	16.6	206.2	0.0	0.0	0.0
36-STONE & CLAY PRODUCTS.....	0.0	1355.7	2572.0	18588.0	5217.7	0.0	0.0
37-PRIMARY IRON, STEEL MFG.....	0.0	465.5	2590.1	0.0	0.0	0.0	0.0
38-PRIMARY NONFERROUS MFG.....	0.0	40.4	64.5	0.0	0.0	0.0	0.0
39-METAL CONTAINERS.....	0.0	0.0	12.3	0.0	0.0	0.0	0.0
40-FABRICATED METAL PRODUCTS.....	0.0	0.0	15.7	0.0	0.0	0.0	0.0
41-SCREW MACHINE PRODUCTS, ETC...	0.0	0.0	24.2	0.0	0.0	0.0	0.0

INDUSTRY NUMBER AND TITLE	IA	KA	MI	MO	NB	ND	SD
42-OTHER FABRICATED METAL PRODS..	0.0	0.0	21.4	0.0	0.0	0.0	0.0
43-ENGINES & TURBINES.....	233.6	0.0	2.3	0.0	0.0	0.0	0.0
44-FARM MACHINERY & EQUIPMENT....	4886.5	0.0	57.3	0.0	0.0	0.0	0.0
45-CONSTRUCTION MACH & EQUIPMENT.	1910.3	0.0	37.8	0.0	0.0	0.0	0.0
46-MATERIALS HAND MACH & EQUIP...	50.5	0.0	2.7	0.0	0.0	0.0	0.0
47-METALWORKING MACH & EQUIPMENT.	55.8	0.0	4.6	0.0	0.0	0.0	0.0
48-SPECIAL MACHINERY & EQUIPMENT.	116.2	0.0	4.4	0.0	0.0	0.0	0.0
49-GENERAL MACHINERY & EQUIPMENT.	110.9	0.0	13.9	0.0	0.0	0.0	0.0
50-MACHINE SHOP PRODUCTS.....	27.6	0.0	7.7	0.0	0.0	0.0	0.0
51-OFFICE, COMPUTING MACHINES....	0.0	0.0	60.9	0.0	0.0	0.0	0.0
52-SERVICE INDUSTRY MACHINES.....	111.7	0.0	28.2	0.0	0.0	0.0	0.0
53-ELECTRIC TRANSMISSION EQUIP...	0.0	0.0	0.0	0.0	0.0	0.0	0.0
54-HOUSEHOLD APPLIANCES.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55-ELECTRIC LIGHTING EQUIPMENT...	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56-RADIO, TV, ETC EQUIPMENT.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57-ELECTRONIC COMPONENTS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58-MISC ELECTRICAL MACHINERY.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59-MOTOR VEHICLES, EQUIPMENT.....	11.3	0.0	0.0	1540.6	0.0	0.0	0.0
60-AIRCRAFT & PARTS.....	1.0	0.0	0.0	675.6	0.0	0.0	0.0
61-OTHER TRANSPORT EQUIPMENT.....	4.0	0.0	0.0	81.7	0.0	0.0	0.0
62-PROFESSIONAL, SCIENT EQUIP....	12.4	2.4	0.0	0.0	0.0	0.0	0.0
63-MEDICAL, PHOTOG EQUIPMENT.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64-MISC MANUFACTURING.....	687.8	72.6	0.0	13.3	0.0	0.0	0.0
65-TRANSPORT & WAREHOUSING.....							
*.01-RAILROADS & RELATED SVCES..							
*.02-LAND PASSENGER TRANSPORT...							
*.03-MOTOR FREIGHT TRANSPORT....							
*.04-WATER TRANSPORT.....							
*.05-AIR TRANSPORT.....							
*.06-PIPELINES, EXC NATURAL GAS.							
*.07-TRANSPORT SERVICES.....							
66-COMMUNIC, EXCL BROADCASTING...	31.8	0.0	52.8	40.6	0.0	0.0	0.0
67-RADIO & TV BROADCASTING.....	18.6	0.0	29.1	44.6	0.0	0.0	0.0
68-ELEC, GAS, WATER, & SANIT SVC.	72250.0	11010.1	107176.0	156662.4	13614.6	36938.3	4553.9
*.01-ELECTRIC UTILITIES.....	71036.9	11010.1	106288.9	155230.9	13614.6	36938.3	4553.9
*.02-GAS UTILITIES.....	624.4	0.0	120.2	478.0	0.0	0.0	0.0
*.03-WATER & SANITARY SERVICES..	588.7	0.0	766.9	953.6	0.0	0.0	0.0
69-WHOLESALE & RETAIL TRADE.....	251.8	0.0	367.0	469.3	0.0	0.0	0.0
70-FINANCE & INSURANCE.....	90.3	0.0	204.8	225.4	0.0	0.0	0.0
71-REAL ESTATE & RENTAL.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72-HOTELS, REPAIR SVC,EXC AUTO...	495.4	0.0	707.3	903.5	0.0	0.0	0.0
73-BUSINESS SERVICES.....	22.8	0.0	55.8	82.8	0.0	0.0	0.0
75-AUTO REPAIR & SERVICES.....	27.8	0.0	38.8	49.3	0.0	0.0	0.0
76-AMUSEMENTS.....	9.4	0.0	15.2	20.9	0.0	0.0	0.0
77-MED, ED SERV, NONPROF ORGAN...	789.1	0.0	1445.0	1676.2	0.0	0.0	0.0
78-FEDERAL GOVT ENTERPRISES.....	14.3	0.0	23.1	31.9	0.0	0.0	0.0
79-STATE & LOCAL GOVT ENTERPRISE.	206.3	0.0	260.5	220.4	0.0	0.0	0.0
88-DOMESTIC FINAL DEMAND.....	9170.0	393.0	18628.2	5240.0	393.0	5240.0	3930.0
89- ** STATE TOTAL.....	118378.6	16774.1	160769.4	205371.4	23553.5	43612.8	8532.3

SEE FOOTNOTES AT END OF TABLE

	SOUTH ATLANTIC								
INDUSTRY NUMBER AND TITLE	DE	FL	GA	MD	DC	NC	SC	VA	WV
01-LIVESTOCK & LIVESTOCK PRODS...	118.3	393.0	819.9	311.5	0.0	723.1	238.1	462.2	117.2
02-OTHER AGRICULTURAL PRODS.....	20.0	212.8	155.2	52.5	0.0	269.1	86.8	89.4	9.3
03-FORESTRY & FISHERY PRODS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
04-AG,FORESTRY, & FISHERY SVCES..	23.9	60.5	241.2	61.9	0.0	164.6	45.5	62.0	45.6
05-IRON & FERRO ORES MINING.....	0.0	6.2	7.0	0.0	0.0	0.0	3.4	6.1	3.9
06-NONFERROUS METAL ORES MINING..	0.0	11.8	29.4	0.0	0.0	0.0	0.0	18.0	0.0
07-COAL MINING.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2774.6	4116.6
08-CRUDE PETROLEUM & NATURAL GAS.	0.0	2.2	0.0	0.0	0.0	0.0	0.0	45.9	87.6
09-STONE & CLAY MINING.....	60.8	368.0	827.4	115.0	16.3	604.4	318.9	552.2	243.3
10-CHEM & FERTILIZER MINERAL MNG.	27.6	716.7	50.7	13.4	0.0	118.1	13.0	13.4	12.1
11-NEW CONSTRUCTION.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12-MAINT & REPAIR CONSTRUCTION...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13-ORDNANCE & ACCESSORIES.....	0.0	0.0	0.0	6.5	0.0	3.0	0.0	92.5	681.0
14-FOOD & KINDRED PRODUCTS.....	0.0	0.0	117.3	3569.6	0.0	286.8	185.6	2333.6	197.8
15-TOBACCO MANUFACTURES.....	0.0	0.0	0.0	0.0	0.0	4893.0	0.0	2582.6	0.0
16-FABRICS.....	1.5	25.0	4688.7	101.2	0.0	21864.8	17996.6	8109.3	1.1
17-TEXTILE PRODUCTS.....	0.9	0.0	0.0	0.0	0.0	1137.6	1234.3	874.0	0.0
18-APPAREL.....	0.0	59.6	57.9	0.0	0.0	714.0	2694.3	631.9	0.0
19-MISC TEXTILE PRODUCTS.....	0.0	39.8	46.3	0.0	0.0	337.7	1857.9	196.4	0.0
20-LUMBER & WOOD PRODUCTS.....	0.0	1008.9	0.0	440.4	0.0	98.2	4.1	1804.8	166.5
21-WOODEN CONTAINERS.....	0.0	91.4	0.0	32.5	0.0	1.8	0.1	61.1	0.0
22-HOUSEHOLD FURNITURE.....	0.0	0.0	45.3	105.7	0.0	1945.2	0.0	1106.5	0.0
23-OTHER FURNITURE.....	0.0	0.0	19.6	104.1	0.0	224.0	0.0	193.0	0.0
24-PAPER & ALLIED PRODUCTS.....	0.0	0.0	11749.8	6729.3	0.0	24661.1	7602.0	33068.5	494.3
25-PAPERBOARD CONTAINERS.....	0.0	0.0	72.6	194.3	0.0	161.5	71.9	169.1	6.9
26-PRINTING & PUBLISHING.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27-CHEMICALS, SELECTED PRODUCTS..	384.8	467.9	2432.3	5248.5	0.0	3430.8	22431.8	28191.2	105994.1
28-PLASTICS & SYNTHETICS.....	555.9	0.0	513.9	2224.3	0.0	4832.8	21468.8	46778.6	30417.1
29-DRUGS & COSMETICS.....	21.8	120.8	9.6	441.1	0.0	128.5	372.9	877.1	567.2
30-PAINT & ALLIED PRODUCTS.....	0.0	0.0	2.5	18.2	0.0	10.9	20.5	24.6	0.0
31-PETROLEUM, RELATED INDUSTRIES.	531.5	580.7	400.2	1441.9	0.0	0.0	0.0	460.8	1109.9
*.01-PETROLEUM REFINING & PRODS.	531.5	16.8	39.2	174.0	0.0	0.0	0.0	49.7	149.2
*.02-PAVING MIXTURES & BLOCKS...	0.0	484.9	157.8	1267.9	0.0	0.0	0.0	366.6	860.8
*.03-ASPHALT FELTS & COATINGS...	0.0	78.9	203.3	0.0	0.0	0.0	0.0	44.5	99.9
32-RUBBER, MISC PLASTICS.....	0.0	0.0	0.0	1363.4	0.0	0.0	0.0	1108.5	50.3
33-LEATHER TANNING & PRODUCTS....	0.0	0.0	0.0	57.8	0.0	947.5	0.0	295.8	844.4
34-FOOTWEAR, LEATHER PRODUCTS....	0.0	19.9	0.0	32.1	0.0	258.8	0.0	65.5	44.1
35-GLASS & GLASS PRODUCTS.....	0.0	0.0	15.2	274.7	0.0	3.7	54.2	177.9	402.7
36-STONE & CLAY PRODUCTS.....	0.0	0.0	1897.5	13724.9	0.0	153.1	1385.1	13545.6	2509.7
37-PRIMARY IRON, STEEL MFG.....	23.3	0.0	0.0	0.0	0.0	0.0	0.0	76.3	211065.3
38-PRIMARY NONFERROUS MFG.....	3.6	0.0	0.0	0.0	0.0	0.0	0.0	5.3	9507.3
39-METAL CONTAINERS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	11.4
40-FABRICATED METAL PRODUCTS.....	0.0	0.0	0.0	0.0	0.0	0.0	37.0	17.5	30.9
41-SCREW MACHINE PRODUCTS, ETC...	0.0	0.0	0.0	0.0	0.0	0.0	31.4	0.7	10.8

INDUSTRY NUMBER AND TITLE	DE	FL	GA	MD	DC	NC	SC	VA	WV
42-OTHER FABRICATED METAL PRODS..	0.0	0.0	0.0	0.0	0.0	0.0	10.7	13.8	72.9
43-ENGINES & TURBINES.....	0.0	2.4	0.7	0.0	0.0	0.0	0.0	0.9	0.0
44-FARM MACHINERY & EQUIPMENT....	0.0	74.8	1.5	0.0	0.0	0.0	0.0	4.2	0.0
45-CONSTRUCTION MACH & EQUIPMENT.	0.0	0.3	0.8	0.0	0.0	0.0	0.0	8.0	0.0
46-MATERIALS HAND MACH & EQUIP...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
47-METALWORKING MACH & EQUIPMENT.	0.0	2.1	0.4	0.0	0.0	0.0	0.0	0.3	0.0
48-SPECIAL MACHINERY & EQUIPMENT.	0.0	4.8	1.2	0.0	0.0	0.0	0.0	4.3	0.0
49-GENERAL MACHINERY & EQUIPMENT.	0.0	4.0	0.8	0.0	0.0	0.0	0.0	5.8	0.0
50-MACHINE SHOP PRODUCTS.....	0.0	4.0	1.2	0.0	0.0	0.0	0.0	2.2	0.0
51-OFFICE, COMPUTING MACHINES....	0.0	20.9	5.4	0.0	0.0	0.0	0.0	3.7	0.0
52-SERVICE INDUSTRY MACHINES.....	0.0	4.1	0.8	0.0	0.0	0.0	0.0	4.9	0.0
53-ELECTRIC TRANSMISSION EQUIP...	0.0	43.8	0.0	0.0	0.0	24.6	0.0	0.0	65.7
54-HOUSEHOLD APPLIANCES.....	0.0	9.4	0.0	0.0	0.0	32.0	0.0	0.0	4.7
55-ELECTRIC LIGHTING EQUIPMENT...	0.0	24.8	0.0	0.0	0.0	12.6	0.0	0.0	157.4
56-RADIO, TV, ETC EQUIPMENT.....	0.0	25.9	0.0	0.0	0.0	24.9	0.0	0.0	6.5
57-ELECTRONIC COMPONENTS.....	0.0	7.0	0.0	0.0	0.0	6.6	0.0	0.0	8.9
58-MISC ELECTRICAL MACHINERY.....	0.0	2.7	0.0	0.0	0.0	16.4	0.0	0.0	0.0
59-MOTOR VEHICLES, EQUIPMENT.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	921.9	0.0
60-AIRCRAFT & PARTS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	0.0
61-OTHER TRANSPORT EQUIPMENT.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1668.0	0.0
62-PROFESSIONAL, SCIENT EQUIP....	0.0	0.0	7.7	0.0	0.0	41.3	0.0	0.0	1.1
63-MEDICAL, PHOTOG EQUIPMENT.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64-MISC MANUFACTURING.....	0.0	0.0	0.0	5.1	0.0	16.4	0.0	164.1	196.5
65-TRANSPORT & WAREHOUSING.....									
*.01-RAILROADS & RELATED SVCES..									
*.02-LAND PASSENGER TRANSPORT...									
*.03-MOTOR FREIGHT TRANSPORT....									
*.04-WATER TRANSPORT.....									
*.05-AIR TRANSPORT.....									
*.06-PIPELINES, EXC NATURAL GAS.									
*.07-TRANSPORT SERVICES.....									
66-COMMUNIC, EXCL BROADCASTING...	9.9	83.6	62.2	66.3	30.9	68.0	25.5	68.2	20.7
67-RADIO & TV BROADCASTING.....	2.4	48.9	30.5	25.8	27.3	35.7	18.3	28.8	11.5
68-ELEC, GAS, WATER, & SANIT SVC.	36649.0	108852.2	158532.4	208214.8	15685.9	363368.7	100439.1	237012.1	295322.4
*.01-ELECTRIC UTILITIES.....	36537.1	107369.7	157328.3	207374.3	15489.2	362129.9	99798.8	235748.1	294191.8
*.02-GAS UTILITIES.....	0.0	172.4	279.5	52.7	30.9	198.5	109.7	318.7	757.5
*.03-WATER & SANITARY SERVICES..	111.9	1310.1	924.6	787.7	165.9	1040.6	530.6	945.2	373.1
69-WHOLESALE & RETAIL TRADE.....	64.7	542.0	420.9	353.0	117.1	417.9	167.1	358.5	105.2
70-FINANCE & INSURANCE.....	37.1	242.1	173.4	146.5	91.2	150.7	57.5	144.6	39.7
71-REAL ESTATE & RENTAL.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72-HOTELS, REPAIR SVC,EXC AUTO...	95.3	1756.4	795.0	718.1	440.6	1688.9	373.2	799.7	227.0
73-BUSINESS SERVICES.....	9.1	112.5	61.0	84.6	68.7	38.9	20.3	55.6	13.7
75-AUTO REPAIR & SERVICES.....	6.8	76.2	68.0	63.1	15.2	52.3	22.8	45.4	12.4
76-AMUSEMENTS.....	6.2	54.6	16.3	25.8	11.6	16.0	6.5	13.1	8.6
77-MED, ED SERV, NONPROF ORGAN...	202.4	1633.6	856.4	1352.4	1447.8	1274.0	405.9	1203.3	417.7
78-FEDERAL GOVT ENTERPRISES.....	3.7	35.6	33.4	22.3	48.2	28.0	13.5	27.7	7.9
79-STATE & LOCAL GOVT ENTERPRISE.	18.1	472.1	250.0	160.0	36.0	430.8	103.4	442.6	96.4
88-DOMESTIC FINAL DEMAND.....	786.0	2882.0	2882.0	786.0	2096.0	17030.0	8515.0	19650.0	8515.0
89- ** STATE TOTAL.....	39664.6	121207.8	188401.2	248688.4	20132.8	452746.7	188332.9	409538.0	674056.7

SEE FOOTNOTES AT END OF TABLE

INDUSTRY NUMBER AND TITLE	EAST SOUTH CENTRAL				WEST SOUTH CENTRAL			
	AL	KY	MS	TE	AS	LA	OK	TX
01-LIVESTOCK & LIVESTOCK PRODS...	614.9	619.3	544.6	561.6	0.0	0.0	0.0	0.0
02-OTHER AGRICULTURAL PRODS.....	60.8	140.4	111.3	83.4	0.0	0.0	0.0	0.0
03-FORESTRY & FISHERY PRODS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
04-AG,FORESTRY, & FISHERY SVCES..	166.7	29.7	171.9	57.1	0.0	0.0	0.0	0.0
05-IRON & FERRO ORES MINING.....	32.6	3.5	0.0	4.7	0.0	0.0	0.0	0.0
06-NONFERROUS METAL ORES MINING..	16.4	11.1	10.2	54.2	0.0	0.0	0.0	0.0
07-COAL MINING.....	74.3	1604.9	0.0	0.0	7.8	0.0	0.0	0.0
08-CRUDE PETROLEUM & NATURAL GAS.	34.5	93.0	267.8	0.0	0.0	0.0	0.0	0.0
09-STONE & CLAY MINING.....	201.9	316.8	91.1	379.7	0.0	0.0	0.0	0.0
10-CHEM & FERTILIZER MINERAL MNG.	98.1	24.9	0.0	32.8	0.0	0.0	0.0	0.0
11-NEW CONSTRUCTION.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12-MAINT & REPAIR CONSTRUCTION...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13-ORDNANCE & ACCESSORIES.....	1100.2	0.0	0.0	9.1	0.0	0.0	517.8	0.0
14-FOOD & KINDRED PRODUCTS.....	103.8	12212.5	43.2	1466.7	0.0	0.0	0.0	0.0
15-TOBACCO MANUFACTURES.....	0.0	1768.3	0.0	5.2	0.0	0.0	0.0	0.0
16-FABRICS.....	951.6	11.7	0.0	940.0	0.0	0.0	1.2	0.0
17-TEXTILE PRODUCTS.....	89.4	5.9	0.0	231.9	0.0	0.0	1.7	0.0
18-APPAREL.....	6.3	12.2	3.0	329.1	0.0	0.0	0.0	0.0
19-MISC TEXTILE PRODUCTS.....	1.9	5.9	1.1	111.7	0.0	0.0	0.0	0.0
20-LUMBER & WOOD PRODUCTS.....	1617.1	606.0	6.9	93.6	0.0	0.0	147.9	0.0
21-WOODEN CONTAINERS.....	64.7	136.3	0.5	10.0	0.0	0.0	0.0	0.0
22-HOUSEHOLD FURNITURE.....	0.0	165.6	0.0	119.1	0.0	0.0	0.0	0.0
23-OTHER FURNITURE.....	0.0	25.3	0.0	32.4	0.0	0.0	0.0	0.0
24-PAPER & ALLIED PRODUCTS.....	27475.1	0.0	0.0	6683.6	139.8	0.0	0.0	0.0
25-PAPERBOARD CONTAINERS.....	19.5	0.0	0.0	39.3	0.4	0.0	0.0	0.0
26-PRINTING & PUBLISHING.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27-CHEMICALS, SELECTED PRODUCTS..	12418.4	15404.9	0.0	52120.7	0.0	0.0	0.0	0.0
28-PLASTICS & SYNTHETICS.....	4142.6	8081.7	0.0	25309.9	0.0	0.0	0.0	0.0
29-DRUGS & COSMETICS.....	11.7	27.9	0.0	626.6	0.0	0.0	0.0	0.0
30-PAINT & ALLIED PRODUCTS.....	9.1	76.8	0.0	5.8	0.0	0.0	0.0	0.0
31-PETROLEUM, RELATED INDUSTRIES.	682.5	1167.7	968.1	719.8	0.0	0.0	0.0	0.0
*.01-PETROLEUM REFINING & PRODS.	67.1	710.8	968.1	139.9	0.0	0.0	0.0	0.0
*.02-PAVING MIXTURES & BLOCKS...	464.1	445.5	0.0	484.9	0.0	0.0	0.0	0.0
*.03-ASPHALT FELTS & COATINGS...	151.3	11.5	0.0	94.9	0.0	0.0	0.0	0.0
32-RUBBER, MISC PLASTICS.....	914.8	0.0	0.0	399.4	0.0	0.0	219.5	0.0
33-LEATHER TANNING & PRODUCTS....	0.0	133.4	0.0	107.7	0.0	0.0	0.0	155.6
34-FOOTWEAR, LEATHER PRODUCTS....	113.3	23.4	0.0	43.6	0.0	0.0	0.0	234.8
35-GLASS & GLASS PRODUCTS.....	0.6	44.5	0.0	527.7	0.0	0.0	44.2	0.0
36-STONE & CLAY PRODUCTS.....	344.4	6375.9	0.0	10213.2	0.0	0.0	777.5	0.0
37-PRIMARY IRON, STEEL MFG.....	33439.2	11403.2	0.0	2972.9	0.0	0.0	4938.1	231423.9
38-PRIMARY NONFERROUS MFG.....	1083.9	378.7	0.0	505.9	0.0	0.0	521.4	18348.6
39-METAL CONTAINERS.....	10.5	18.3	0.0	1.8	0.0	0.0	0.0	0.0
40-FABRICATED METAL PRODUCTS.....	192.8	267.5	0.0	26.1	0.0	0.0	0.0	0.0
41-SCREW MACHINE PRODUCTS, ETC...	93.6	201.8	0.0	9.0	0.0	0.0	0.0	0.0

INDUSTRY NUMBER AND TITLE	AL	KY	MS	TE	AS	LA	OK	TX
42-OTHER FABRICATED METAL PRODS..	164.6	535.7	0.0	24.3	0.0	0.0	0.0	0.0
43-ENGINES & TURBINES.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44-FARM MACHINERY & EQUIPMENT....	0.0	718.1	0.0	0.0	0.0	0.0	0.0	0.0
45-CONSTRUCTION MACH & EQUIPMENT.	0.0	34.2	0.0	0.0	0.0	0.0	0.0	0.0
46-MATERIALS HAND MACH & EQUIP...	0.0	55.2	0.0	0.0	0.0	0.0	0.0	0.0
47-METALWORKING MACH & EQUIPMENT.	0.0	25.4	0.0	0.0	0.0	0.0	0.0	0.0
48-SPECIAL MACHINERY & EQUIPMENT.	0.0	61.1	0.0	0.0	0.0	0.0	0.0	0.0
49-GENERAL MACHINERY & EQUIPMENT.	0.0	250.0	0.0	0.0	0.0	0.0	0.0	0.0
50-MACHINE SHOP PRODUCTS.....	0.0	78.6	0.0	0.0	0.0	0.0	0.0	0.0
51-OFFICE, COMPUTING MACHINES....	0.0	447.3	0.0	0.0	0.0	0.0	0.0	0.0
52-SERVICE INDUSTRY MACHINES.....	0.0	303.3	0.0	0.0	0.0	0.0	0.0	0.0
53-ELECTRIC TRANSMISSION EQUIP...	0.0	592.4	0.0	32.0	0.0	0.0	0.0	0.0
54-HOUSEHOLD APPLIANCES.....	0.0	2875.3	0.0	135.6	0.0	0.0	0.0	0.0
55-ELECTRIC LIGHTING EQUIPMENT...	0.0	420.7	0.0	29.1	0.0	0.0	0.0	0.0
56-RADIO, TV, ETC EQUIPMENT.....	0.0	290.1	0.0	117.0	0.0	0.0	0.0	0.0
57-ELECTRONIC COMPONENTS.....	0.0	169.3	0.0	3.3	0.0	0.0	0.0	0.0
58-MISC ELECTRICAL MACHINERY.....	0.0	41.5	0.0	8.5	0.0	0.0	0.0	0.0
59-MOTOR VEHICLES, EQUIPMENT.....	41.7	683.2	0.0	0.0	0.0	0.0	0.0	0.0
60-AIRCRAFT & PARTS.....	32.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61-OTHER TRANSPORT EQUIPMENT.....	83.4	152.0	0.0	0.0	0.0	0.0	0.0	0.0
62-PROFESSIONAL, SCIENT EQUIP....	1.4	0.0	0.0	0.0	0.0	0.0	2.1	0.0
63-MEDICAL, PHOTOG EQUIPMENT.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64-MISC MANUFACTURING.....	346.9	0.0	0.0	12.4	0.0	0.0	0.0	0.0
65-TRANSPORT & WAREHOUSING.....								
*.01-RAILROADS & RELATED SVCES..								
*.02-LAND PASSENGER TRANSPORT...								
*.03-MOTOR FREIGHT TRANSPORT....								
*.04-WATER TRANSPORT.....								
*.05-AIR TRANSPORT.....								
*.06-PIPELINES, EXC NATURAL GAS.								
*.07-TRANSPORT SERVICES.....								
66-COMMUNIC, EXCL BROADCASTING...	39.0	34.8	18.5	53.6	0.0	0.0	0.0	0.0
67-RADIO & TV BROADCASTING.....	22.6	19.3	7.8	32.6	0.0	0.0	0.0	0.0
68-ELEC, GAS, WATER, & SANIT SVC.	377408.1	329234.4	2681.8	313533.4	0.0	0.0	0.0	0.0
*.01-ELECTRIC UTILITIES.....	375993.2	327253.1	0.0	311710.2	0.0	0.0	0.0	0.0
*.02-GAS UTILITIES.....	689.7	1314.1	2213.3	1011.0	0.0	0.0	0.0	0.0
*.03-WATER & SANITARY SERVICES..	725.5	667.5	468.4	812.5	0.0	0.0	0.0	0.0
69-WHOLESALE & RETAIL TRADE.....	219.0	210.8	120.1	322.3	0.0	0.0	0.0	0.0
70-FINANCE & INSURANCE.....	88.5	79.5	43.5	129.0	0.0	0.0	0.0	0.0
71-REAL ESTATE & RENTAL.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72-HOTELS, REPAIR SVC,EXC AUTO...	437.1	468.7	265.5	581.6	0.0	0.0	0.0	0.0
73-BUSINESS SERVICES.....	35.6	22.3	11.4	52.4	0.0	0.0	0.0	0.0
75-AUTO REPAIR & SERVICES.....	30.2	25.8	23.7	38.8	0.0	0.0	0.0	0.0
76-AMUSEMENTS.....	4.7	12.4	3.4	12.7	0.0	0.0	0.0	0.0
77-MED, ED SERV, NONPROF ORGAN...	637.1	750.6	278.7	1060.3	0.0	0.0	0.0	0.0
78-FEDERAL GOVT ENTERPRISES.....	32.2	28.0	8.7	51.8	0.0	0.0	0.0	0.0
79-STATE & LOCAL GOVT ENTERPRISE.	337.7	113.7	107.9	529.1	0.0	0.0	0.0	0.0
88-DOMESTIC FINAL DEMAND.....	1310.0	15196.0	1179.0	12445.0	209.6	0.0	0.0	524.0
89- ** STATE TOTAL.....	467457.3	415327.6	6969.5	434038.6	357.6	0.0	7171.3	250686.8

SEE FOOTNOTES AT END OF TABLE

INDUSTRY NUMBER AND TITLE	MOUNTAIN AZ	CO	ID	MT	NV	NM	UT	WY
01-LIVESTOCK & LIVESTOCK PRODS...	197.0	625.8	320.5	247.7	80.8	0.0	199.2	0.0
02-OTHER AGRICULTURAL PRODS.....	87.6	71.1	96.6	41.5	6.2	0.0	19.9	0.0
03-FORESTRY & FISHERY PRODS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
04-AG,FORESTRY, & FISHERY SVCES..	50.2	33.2	29.4	13.9	3.8	0.0	17.1	0.0
05-IRON & FERRO ORES MINING.....	0.0	91.9	6.3	4.4	14.6	0.0	87.1	0.0
06-NONFERROUS METAL ORES MINING..	1377.3	241.9	166.2	59.5	261.5	0.0	319.2	0.0
07-COAL MINING.....	0.0	17.5	0.0	0.0	0.0	31.0	171.8	0.0
08-CRUDE PETROLEUM & NATURAL GAS.	118.1	186.9	0.0	76.3	22.6	0.0	0.0	0.0
09-STONE & CLAY MINING.....	39.3	86.6	76.3	33.2	25.5	0.0	89.5	0.0
10-CHEM & FERTILIZER MINERAL MNG.	29.2	88.1	12.1	47.7	26.6	0.0	66.6	0.0
11-NEW CONSTRUCTION.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12-MAINT & REPAIR CONSTRUCTION...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13-ORDNANCE & ACCESSORIES.....	0.0	333.3	22.0	0.0	23.7	0.0	196.3	0.0
14-FOOD & KINDRED PRODUCTS.....	0.0	7256.0	3772.9	9.1	0.0	0.0	936.0	0.0
15-TOBACCO MANUFACTURES.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16-FABRICS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17-TEXTILE PRODUCTS.....	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
18-APPAREL.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19-MISC TEXTILE PRODUCTS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-LUMBER & WOOD PRODUCTS.....	0.0	0.0	0.0	0.0	39.2	0.0	106.0	0.0
21-WOODEN CONTAINERS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22-HOUSEHOLD FURNITURE.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23-OTHER FURNITURE.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24-PAPER & ALLIED PRODUCTS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25-PAPERBOARD CONTAINERS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26-PRINTING & PUBLISHING.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27-CHEMICALS, SELECTED PRODUCTS..	0.0	859.5	0.0	21.8	0.0	0.0	0.0	19.2
28-PLASTICS & SYNTHETICS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29-DRUGS & COSMETICS.....	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
30-PAINT & ALLIED PRODUCTS.....	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
31-PETROLEUM, RELATED INDUSTRIES.	0.0	207.1	0.0	570.8	0.0	0.0	986.7	0.0
*.01-PETROLEUM REFINING & PRODS.	0.0	207.1	0.0	570.8	0.0	0.0	565.3	0.0
*.02-PAVING MIXTURES & BLOCKS...	0.0	0.0	0.0	0.0	0.0	0.0	401.4	0.0
*.03-ASPHALT FELTS & COATINGS...	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0
32-RUBBER, MISC PLASTICS.....	0.0	289.6	0.0	0.0	0.0	0.0	25.7	0.0
33-LEATHER TANNING & PRODUCTS....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34-FOOTWEAR, LEATHER PRODUCTS....	0.0	269.4	0.0	0.0	0.0	0.0	0.0	0.0
35-GLASS & GLASS PRODUCTS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36-STONE & CLAY PRODUCTS.....	0.0	786.7	0.0	0.0	0.0	0.0	7857.4	0.0
37-PRIMARY IRON, STEEL MFG.....	0.0	2521.0	0.0	0.0	0.0	0.0	7554.4	0.0
38-PRIMARY NONFERROUS MFG.....	0.0	3.1	123.1	171.6	158.7	0.0	135.8	8.2
39-METAL CONTAINERS.....	0.0	0.0	0.0	0.0	0.0	0.0	6.5	0.0
40-FABRICATED METAL PRODUCTS.....	0.0	0.0	5.0	1.6	2.4	0.0	30.5	0.4
41-SCREW MACHINE PRODUCTS, ETC...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

INDUSTRY NUMBER AND TITLE	AZ	CO	ID	MT	NV	NM	UT	WY
42-OTHER FABRICATED METAL PRODS..	0.0	0.0	1.9	0.0	0.0	0.0	1.1	0.0
43-ENGINES & TURBINES.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44-FARM MACHINERY & EQUIPMENT....	0.0	0.0	27.1	0.0	0.0	0.0	0.0	0.0
45-CONSTRUCTION MACH & EQUIPMENT.	0.0	0.0	11.9	0.0	0.0	0.0	0.0	0.0
46-MATERIALS HAND MACH & EQUIP...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47-METALWORKING MACH & EQUIPMENT.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48-SPECIAL MACHINERY & EQUIPMENT.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49-GENERAL MACHINERY & EQUIPMENT.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50-MACHINE SHOP PRODUCTS.....	0.0	0.0	1.0	1.4	0.0	0.0	0.0	0.0
51-OFFICE, COMPUTING MACHINES....	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0
52-SERVICE INDUSTRY MACHINES.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53-ELECTRIC TRANSMISSION EQUIP...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
54-HOUSEHOLD APPLIANCES.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55-ELECTRIC LIGHTING EQUIPMENT...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56-RADIO, TV, ETC EQUIPMENT.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57-ELECTRONIC COMPONENTS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58-MISC ELECTRICAL MACHINERY.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59-MOTOR VEHICLES, EQUIPMENT.....	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0
60-AIRCRAFT & PARTS.....	0.0	0.0	0.0	0.0	0.0	0.0	22.5	0.0
61-OTHER TRANSPORT EQUIPMENT.....	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0
62-PROFESSIONAL, SCIENT EQUIP....	0.0	8.1	0.0	0.0	0.0	0.0	0.9	0.0
63-MEDICAL, PHOTOG EQUIPMENT.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64-MISC MANUFACTURING.....	0.0	202.1	31.4	0.0	25.0	0.0	117.1	0.0
65-TRANSPORT & WAREHOUSING.....								
*.01-RAILROADS & RELATED SVCES..								
*.02-LAND PASSENGER TRANSPORT...								
*.03-MOTOR FREIGHT TRANSPORT....								
*.04-WATER TRANSPORT.....								
*.05-AIR TRANSPORT.....								
*.06-PIPELINES, EXC NATURAL GAS.								
*.07-TRANSPORT SERVICES.....								
66-COMMUNIC, EXCL BROADCASTING...	10.1	15.3	11.3	2.6	7.8	0.0	9.5	0.0
67-RADIO & TV BROADCASTING.....	12.0	16.8	3.8	2.3	4.6	0.0	8.2	0.0
68-ELEC, GAS, WATER, & SANIT SVC.	9409.3	70621.1	4983.2	9373.8	48795.7	11357.3	39990.3	0.0
*.01-ELECTRIC UTILITIES.....	7986.3	70116.8	4775.4	9190.5	48699.3	11357.3	39764.3	0.0
*.02-GAS UTILITIES.....	1078.9	73.2	62.7	34.0	1.0	0.0	10.4	0.0
*.03-WATER & SANITARY SERVICES..	344.1	431.2	145.1	149.3	95.4	0.0	215.5	0.0
69-WHOLESALE & RETAIL TRADE.....	113.3	173.0	56.0	32.1	45.7	0.0	82.5	0.0
70-FINANCE & INSURANCE.....	56.4	89.7	18.5	11.2	17.7	0.0	34.5	0.0
71-REAL ESTATE & RENTAL.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72-HOTELS, REPAIR SVC,EXC AUTO...	320.4	380.0	127.7	60.3	630.6	0.0	151.2	0.0
73-BUSINESS SERVICES.....	23.4	29.7	8.0	2.9	16.6	0.0	13.1	0.0
75-AUTO REPAIR & SERVICES.....	18.9	24.0	7.5	4.1	8.2	0.0	12.7	0.0
76-AMUSEMENTS.....	6.8	11.7	2.3	1.1	50.1	0.0	4.9	0.0
77-MED, ED SERV, NONPROF ORGAN...	462.8	687.6	139.8	111.2	85.7	0.0	377.7	0.0
78-FEDERAL GOVT ENTERPRISES.....	8.7	13.0	3.6	3.3	3.2	0.0	5.4	0.0
79-STATE & LOCAL GOVT ENTERPRISE.	128.2	130.0	48.2	26.9	17.4	0.0	85.1	0.0
88-DOMESTIC FINAL DEMAND.....	1310.0	8384.0	3275.0	5240.0	1310.0	0.0	4192.0	786.0
89- ** STATE TOTAL.....	13779.0	94763.4	13388.8	16172.3	51685.4	11388.4	63918.2	813.7

SEE FOOTNOTES AT END OF TABLE

INDUSTRY NUMBER AND TITLE	PACIFIC AK	CA	OR	WA	HA	U. S. TOTAL US
01-LIVESTOCK & LIVESTOCK PRODS...	4.0	0.0	322.1	348.8	0.0	21132.0
02-OTHER AGRICULTURAL PRODS.....	0.4	0.0	94.2	163.0	0.0	4334.8
03-FORESTRY & FISHERY PRODS.....	0.0	0.0	0.0	0.0	0.0	0.0
04-AG,FORESTRY, & FISHERY SVCES..	0.6	0.0	36.6	42.4	0.0	2167.4
05-IRON & FERRO ORES MINING.....	0.0	0.0	2.8	2.8	0.0	1625.6
06-NONFERROUS METAL ORES MINING..	90.8	0.0	18.0	16.7	0.0	3251.1
07-COAL MINING.....	0.0	0.0	0.0	0.0	0.0	11640.0
08-CRUDE PETROLEUM & NATURAL GAS.	162.7	0.0	0.0	0.0	0.0	1625.6
09-STONE & CLAY MINING.....	32.6	0.0	267.1	262.2	0.0	11370.0
10-CHEM & FERTILIZER MINERAL MNG.	0.0	0.0	12.1	0.0	0.0	1625.6
11-NEW CONSTRUCTION.....	0.0	0.0	0.0	0.0	0.0	0.0
12-MAINT & REPAIR CONSTRUCTION...	0.0	0.0	0.0	0.0	0.0	0.0
13-ORDNANCE & ACCESSORIES.....	0.0	0.0	0.0	8402.5	0.0	13546.0
14-FOOD & KINDRED PRODUCTS.....	0.0	0.0	1307.8	594.5	0.0	196999.9
15-TOBACCO MANUFACTURES.....	0.0	0.0	0.0	0.0	0.0	9410.0
16-FABRICS.....	0.0	0.0	3.0	0.8	0.0	59583.0
17-TEXTILE PRODUCTS.....	0.0	0.0	0.5	0.0	0.0	6095.0
18-APPAREL.....	0.0	0.0	0.0	0.0	0.0	7960.0
19-MISC TEXTILE PRODUCTS.....	0.0	0.0	0.0	0.0	0.0	6726.7
20-LUMBER & WOOD PRODUCTS.....	0.0	6.8	0.5	0.0	0.0	10262.0
21-WOODEN CONTAINERS.....	0.0	0.4	0.0	0.0	0.0	541.8
22-HOUSEHOLD FURNITURE.....	0.0	0.0	0.0	0.0	0.0	6439.0
23-OTHER FURNITURE.....	0.0	0.0	0.0	0.0	0.0	3101.1
24-PAPER & ALLIED PRODUCTS.....	0.0	50.3	0.0	0.0	0.0	361189.8
25-PAPERBOARD CONTAINERS.....	0.0	0.9	0.0	0.0	0.0	2850.0
26-PRINTING & PUBLISHING.....	0.0	0.0	0.0	0.0	0.0	2867.4
27-CHEMICALS, SELECTED PRODUCTS..	0.0	0.0	0.0	1299.4	0.0	439249.8
28-PLASTICS & SYNTHETICS.....	0.0	0.0	0.0	41.5	0.0	184129.9
29-DRUGS & COSMETICS.....	0.0	0.0	0.0	5.1	0.0	19571.0
30-PAINT & ALLIED PRODUCTS.....	0.0	0.0	0.0	3.2	0.0	1029.0
31-PETROLEUM, RELATED INDUSTRIES.	84.0	0.0	605.7	1456.7	0.0	43309.0
*.01-PETROLEUM REFINING & PRODS.	84.0	0.0	408.5	816.9	0.0	22510.0
*.02-PAVING MIXTURES & BLOCKS...	0.0	0.0	118.3	621.8	0.0	17339.0
*.03-ASPHALT FELTS & COATINGS...	0.0	0.0	78.9	18.0	0.0	3460.0
32-RUBBER, MISC PLASTICS.....	0.0	0.0	26.5	41.2	0.0	59353.0
33-LEATHER TANNING & PRODUCTS....	0.0	0.0	0.0	0.0	0.0	6296.0
34-FOOTWEAR, LEATHER PRODUCTS....	0.0	0.0	0.0	13.4	0.0	2100.9
35-GLASS & GLASS PRODUCTS.....	0.0	0.6	0.0	0.0	0.0	8321.0
36-STONE & CLAY PRODUCTS.....	0.0	49.8	0.0	0.0	0.0	313709.8
37-PRIMARY IRON, STEEL MFG.....	0.0	740.6	0.0	9.6	0.0	2440999.0
38-PRIMARY NONFERROUS MFG.....	0.0	32.2	0.0	3.9	0.0	61795.0
39-METAL CONTAINERS.....	0.0	0.0	0.0	0.0	0.0	1501.0
40-FABRICATED METAL PRODUCTS.....	0.0	0.0	0.0	0.0	0.0	6210.4
41-SCREW MACHINE PRODUCTS, ETC...	0.0	0.0	0.0	0.0	0.0	15354.0

INDUSTRY NUMBER AND TITLE	AK	CA	OR	WA	HA	US
42-OTHER FABRICATED METAL PRODS..	0.0	0.0	0.0	0.0	0.0	13646.0
43-ENGINES & TURBINES.....	0.0	1.3	0.0	0.0	0.0	9140.3
44-FARM MACHINERY & EQUIPMENT....	0.0	1.0	0.0	14.0	0.0	16010.0
45-CONSTRUCTION MACH & EQUIPMENT.	0.0	2.1	0.0	32.2	0.0	12708.0
46-MATERIALS HAND MACH & EQUIP...	0.0	0.5	0.0	2.5	0.0	1908.3
47-METALWORKING MACH & EQUIPMENT.	0.0	0.7	0.0	3.4	0.0	3683.9
48-SPECIAL MACHINERY & EQUIPMENT.	0.0	1.3	0.0	16.1	0.0	3455.4
49-GENERAL MACHINERY & EQUIPMENT.	0.0	2.2	0.0	8.8	0.0	7958.7
50-MACHINE SHOP PRODUCTS.....	0.0	2.0	0.0	25.2	0.0	2056.0
51-OFFICE, COMPUTING MACHINES....	0.0	2.6	0.0	1.4	0.0	3275.2
52-SERVICE INDUSTRY MACHINES.....	0.0	1.1	0.0	3.7	0.0	4286.6
53-ELECTRIC TRANSMISSION EQUIP...	0.0	0.0	0.0	0.1	0.0	8612.1
54-HOUSEHOLD APPLIANCES.....	0.0	0.0	0.0	0.0	0.0	11423.0
55-ELECTRIC LIGHTING EQUIPMENT...	0.0	0.0	0.0	0.0	0.0	4010.5
56-RADIO, TV, ETC EQUIPMENT.....	0.0	0.0	0.0	0.1	0.0	6350.4
57-ELECTRONIC COMPONENTS.....	0.0	0.0	0.0	0.0	0.0	2570.1
58-MISC ELECTRICAL MACHINERY.....	0.0	0.0	0.0	0.0	0.0	3649.0
59-MOTOR VEHICLES, EQUIPMENT.....	0.0	0.0	0.0	0.0	0.0	80994.9
60-AIRCRAFT & PARTS.....	0.0	0.0	0.0	0.0	0.0	10811.0
61-OTHER TRANSPORT EQUIPMENT.....	0.0	0.0	0.0	0.0	0.0	9024.4
62-PROFESSIONAL, SCIENT EQUIP....	0.0	0.0	1.0	0.8	0.0	979.4
63-MEDICAL, PHOTOG EQUIPMENT.....	0.0	0.0	0.0	0.0	0.0	0.0
64-MISC MANUFACTURING.....	0.0	0.0	0.0	87.1	0.0	4698.2
65-TRANSPORT & WAREHOUSING.....						65126.0
*.01-RAILROADS & RELATED SVCES..						30860.0
*.02-LAND PASSENGER TRANSPORT...						1625.6
*.03-MOTOR FREIGHT TRANSPORT....						16797.0
*.04-WATER TRANSPORT.....						12050.0
*.05-AIR TRANSPORT.....						2167.4
*.06-PIPELINES, EXC NATURAL GAS.						541.8
*.07-TRANSPORT SERVICES.....						1083.7
66-COMMUNIC, EXCL BROADCASTING...	1.6	0.0	31.5	55.0	0.0	2167.4
67-RADIO & TV BROADCASTING.....	2.5	0.0	15.8	26.2	0.0	1625.6
68-ELEC, GAS, WATER, & SANIT SVC.	1572.1	0.0	575.7	905.1	0.0	7228996.0
*.01-ELECTRIC UTILITIES.....	1514.1	0.0	0.0	0.0	0.0	7185999.0
*.02-GAS UTILITIES.....	0.0	0.0	504.9	812.9	0.0	14860.0
*.03-WATER & SANITARY SERVICES..	58.0	0.0	70.8	92.2	0.0	28718.0
69-WHOLESALE & RETAIL TRADE.....	21.0	0.0	213.9	312.2	0.0	14088.0
70-FINANCE & INSURANCE.....	6.0	0.0	81.5	136.1	0.0	7585.9
71-REAL ESTATE & RENTAL.....	0.0	0.0	0.0	0.0	0.0	0.0
72-HOTELS, REPAIR SVC,EXC AUTO...	52.9	0.0	421.5	591.0	0.0	29802.0
73-BUSINESS SERVICES.....	4.2	0.0	28.4	51.8	0.0	3251.1
75-AUTO REPAIR & SERVICES.....	2.6	0.0	29.0	41.4	0.0	1625.6
76-AMUSEMENTS.....	1.2	0.0	8.7	16.2	0.0	1083.7
77-MED, ED SERV, NONPROF ORGAN...	59.6	0.0	713.2	1107.7	0.0	53643.0
78-FEDERAL GOVT ENTERPRISES.....	6.3	0.0	25.9	30.6	0.0	1083.7
79-STATE & LOCAL GOVT ENTERPRISE.	16.1	0.0	225.1	707.5	0.0	11379.0
88-DOMESTIC FINAL DEMAND.....	1257.6	393.0	2620.0	2620.0	0.0	480923.6
89- ** STATE TOTAL.....	3378.7	1289.5	7688.3	19504.1	0.0	12473426.0

* NOTE: COUNT ONLY SUBSECTORS WITHIN I/O SECTORS 31, 65, AND 68 WHEN SUMMING COLUMNS.
** NOTE: COLUMNS MAY NOT SUM EXACTLY TO STATE TOTALS OR ROWS TO NATIONAL TOTALS DUE TO INDIVIDUAL ROUNDING.

APPENDIX J - ELECTRICITY

(10**9 BTU). ONE UNIT IN THIS TABLE APPROXIMATES 293000 KWH OF ELECTRICITY

INDUSTRY NUMBER AND TITLE	NEW ENGLAND						MIDDLE ATLANTIC		
	CT	MA	RI	VT	ME	NH	NJ	NY	PA
01-LIVESTOCK & LIVESTOCK PRODS...	57.3	87.0	666.0	103.4	47.9	27.9	77.9	1024.6	692.2
02-OTHER AGRICULTURAL PRODS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
03-FORESTRY & FISHERY PRODS.....	0.1	1.3	0.2	0.0	0.9	0.1	0.4	0.6	0.3
04-AG,FORESTRY, & FISHERY SVCES..	0.5	0.5	0.1	0.2	1.8	0.3	0.6	2.6	3.1
05-IRON & FERRO ORES MINING.....	0.0	0.0	0.0	0.0	0.0	0.0	17.6	256.5	377.4
06-NONFERROUS METAL ORES MINING..	0.0	0.0	0.0	0.0	0.0	0.0	33.6	335.0	34.7
07-COAL MINING.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	408.6
08-CRUDE PETROLEUM & NATURAL GAS.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.2	182.2
09-STONE & CLAY MINING.....	77.1	93.5	74.2	136.0	9.6	14.7	446.6	619.4	739.6
10-CHEM & FERTILIZER MINERAL MNG.	0.0	0.0	51.2	25.3	25.3	0.0	25.3	25.3	25.3
11-NEW CONSTRUCTION.....	112.7	201.9	28.1	15.3	21.6	21.4	249.4	430.2	361.0
12-MAINT & REPAIR CONSTRUCTION...	18.5	26.8	4.1	2.0	4.8	4.2	40.2	71.2	43.5
13-ORDNANCE & ACCESSORIES.....	557.6	397.0	0.0	59.5	23.3	0.0	126.6	281.1	741.4
14-FOOD & KINDRED PRODUCTS.....	443.2	1713.9	152.7	122.3	531.9	90.3	2738.3	8961.3	4526.1
15-TOBACCO MANUFACTURES.....	9.2	0.0	0.0	0.0	0.0	0.0	11.1	1.7	235.2
16-FABRICS.....	289.3	1194.5	1162.3	3.2	608.3	580.9	519.8	745.0	1313.0
17-TEXTILE PRODUCTS.....	98.7	449.6	206.4	0.0	37.6	38.3	267.2	420.4	543.5
18-APPAREL.....	143.6	837.4	42.2	3.9	27.3	30.0	1014.5	5636.9	1956.5
19-MISC TEXTILE PRODUCTS.....	28.3	168.7	10.8	0.5	4.6	2.1	215.7	544.7	147.7
20-LUMBER & WOOD PRODUCTS.....	34.1	109.3	8.1	97.9	402.2	139.6	113.8	589.6	263.3
21-WOODEN CONTAINERS.....	2.9	6.8	0.0	3.6	2.6	6.5	12.7	24.1	7.4
22-HOUSEHOLD FURNITURE.....	40.6	176.9	1.3	47.4	6.7	23.6	70.3	376.0	307.1
23-OTHER FURNITURE.....	42.0	50.8	9.8	0.0	5.4	5.7	44.1	371.9	239.7
24-PAPER & ALLIED PRODUCTS.....	604.0	2632.2	42.2	360.4	4692.3	1732.6	2297.8	5933.3	4129.2
25-PAPERBOARD CONTAINERS.....	98.4	251.5	11.3	37.2	23.9	42.1	460.2	760.1	660.5
26-PRINTING & PUBLISHING.....	284.3	679.4	73.3	45.9	29.5	33.7	934.8	2920.1	1657.6
27-CHEMICALS, SELECTED PRODUCTS..	142.5	381.6	31.8	0.0	153.4	56.8	10337.6	7115.1	1136.9
28-PLASTICS & SYNTHETICS.....	22.8	143.8	5.2	23.3	0.0	15.0	574.0	384.1	240.9
29-DRUGS & COSMETICS.....	33.6	39.0	0.8	0.0	5.4	0.0	1127.5	1403.1	153.4
30-PAINT & ALLIED PRODUCTS.....	0.5	6.6	0.2	0.0	0.0	0.0	114.1	83.6	16.1
31-PETROLEUM, RELATED INDUSTRIES.	966.3	711.7	79.8	0.0	0.0	20.7	2809.8	534.6	3445.7
*.01-PETROLEUM REFINING & PRODS.	940.6	623.4	79.8	0.0	0.0	0.0	2672.0	394.6	3315.1
*.02-PAVING MIXTURES & BLOCKS...	20.7	66.4	0.0	0.0	0.0	20.7	75.3	140.0	89.7
*.03-ASPHALT FELTS & COATINGS...	5.0	21.9	0.0	0.0	0.0	0.0	62.5	0.0	40.9
32-RUBBER, MISC PLASTICS.....	1076.1	2671.2	677.4	56.0	109.7	204.7	2125.0	2338.0	2441.8
33-LEATHER TANNING & PRODUCTS....	0.0	157.5	0.0	7.5	36.8	39.0	136.3	72.8	41.6
34-FOOTWEAR, LEATHER PRODUCTS....	53.5	316.4	25.7	2.4	186.1	196.7	163.8	475.7	190.6
35-GLASS & GLASS PRODUCTS.....	139.5	10.2	176.6	0.0	0.0	0.0	967.3	1015.7	2870.1
36-STONE & CLAY PRODUCTS.....	708.6	1389.9	105.0	159.2	76.7	81.9	1426.4	3346.6	4279.2
37-PRIMARY IRON, STEEL MFG.....	632.5	651.6	96.7	72.9	83.5	21.8	965.0	11205.9	30981.5
38-PRIMARY NONFERROUS MFG.....	2547.2	1170.0	742.3	294.1	75.6	50.3	4522.8	18071.6	6120.0
39-METAL CONTAINERS.....	0.0	30.3	0.0	0.0	14.1	0.0	587.0	151.8	216.8
40-FABRICATED METAL PRODUCTS.....	215.4	271.0	39.6	6.4	26.1	13.9	780.7	956.4	1783.0
41-SCREW MACHINE PRODUCTS, ETC...	729.7	350.0	86.7	2.5	0.0	6.3	695.4	956.0	1030.9

INDUSTRY NUMBER AND TITLE	CT	MA	RI	VT	ME	NH	NJ	NY	PA
42-OTHER FABRICATED METAL PRODS..	976.1	849.7	142.4	2.7	1.1	20.8	1201.4	1051.2	1281.5
43-ENGINES & TURBINES.....	77.3	164.3	0.0	0.0	0.0	0.0	76.6	521.6	668.9
44-FARM MACHINERY & EQUIPMENT....	0.0	4.3	0.0	0.0	0.0	0.0	6.3	41.7	134.6
45-CONSTRUCTION MACH & EQUIPMENT.	0.0	5.9	0.0	0.0	0.0	43.0	67.6	88.8	596.8
46-MATERIALS HAND MACH & EQUIP...	4.2	16.0	0.0	0.0	0.0	0.0	73.3	106.6	213.4
47-METALWORKING MACH & EQUIPMENT.	718.8	322.4	117.3	140.9	2.7	47.7	237.6	538.4	855.6
48-SPECIAL MACHINERY & EQUIPMENT.	179.7	291.5	69.0	2.6	10.7	83.4	285.3	445.1	535.4
49-GENERAL MACHINERY & EQUIPMENT.	730.2	191.6	22.8	3.4	0.0	91.5	461.6	874.5	1215.3
50-MACHINE SHOP PRODUCTS.....	303.2	149.1	26.8	5.2	7.8	18.7	202.0	646.1	497.5
51-OFFICE, COMPUTING MACHINES....	210.2	271.6	0.0	29.3	0.0	14.2	154.8	1111.0	142.7
52-SERVICE INDUSTRY MACHINES.....	48.7	41.5	2.3	6.7	7.2	0.0	194.8	358.3	297.4
53-ELECTRIC TRANSMISSION EQUIP...	407.1	875.4	7.0	0.0	9.6	134.3	674.2	1746.5	2540.7
54-HOUSEHOLD APPLIANCES.....	152.1	72.8	8.1	0.0	0.0	0.0	103.3	228.6	160.9
55-ELECTRIC LIGHTING EQUIPMENT...	181.0	443.0	60.4	2.5	0.0	8.2	492.7	598.6	547.4
56-RADIO, TV, ETC EQUIPMENT.....	166.4	1238.7	42.4	0.0	5.6	121.0	1629.5	2012.3	888.5
57-ELECTRONIC COMPONENTS.....	332.0	1190.0	45.8	98.5	116.3	126.1	922.8	3486.9	1630.9
58-MISC ELECTRICAL MACHINERY.....	46.6	141.1	23.5	2.7	29.0	11.8	185.3	196.1	206.3
59-MOTOR VEHICLES, EQUIPMENT.....	137.9	287.7	7.0	0.0	0.0	3.8	1092.6	1854.6	590.3
60-AIRCRAFT & PARTS.....	3227.9	373.1	7.9	33.6	40.6	4.5	331.4	2662.4	1176.6
61-OTHER TRANSPORT EQUIPMENT.....	256.9	156.6	4.9	0.0	96.6	0.0	124.4	279.7	717.2
62-PROFESSIONAL, SCIENT EQUIP....	206.0	176.1	47.0	15.9	2.0	6.4	444.2	369.6	528.1
63-MEDICAL, PHOTOG EQUIPMENT.....	56.2	335.2	9.2	7.9	0.0	8.4	236.7	1574.6	46.8
64-MISC MANUFACTURING.....	391.5	669.3	244.1	6.0	4.8	11.2	526.2	1774.9	619.8
65-TRANSPORT & WAREHOUSING.....									
*.01-RAILROADS & RELATED SVCES,+++									
*.02-LAND PASSENGER TRANSPORT...	0.0	42.5	0.0	0.0	0.0	0.0	0.0	8972.3	3244.8
*.03-MOTOR FREIGHT TRANSPORT....									
*.04-WATER TRANSPORT.....									
*.05-AIR TRANSPORT.....									
*.06-PIPELINES, EXC NATURAL GAS.									
*.07-TRANSPORT SERVICES.....									
66-COMMUNIC, EXCL BROADCASTING...	471.9	505.3	73.4	23.7	57.7	41.8	613.5	1668.4	775.2
67-RADIO & TV BROADCASTING.....	49.6	113.0	22.4	4.9	18.6	7.9	22.1	1323.5	301.9
68-ELEC, GAS, WATER, & SANIT SVC.	4376.0	7621.0	544.3	289.9	1445.6	964.8	9693.1	27406.3	20748.8
*.01-ELECTRIC UTILITIES.....	4256.3	7380.7	507.6	273.3	1405.5	937.2	9410.9	26630.1	20067.0
*.02-GAS UTILITIES.....	2.6	18.0	0.5	0.0	0.0	0.1	6.3	61.8	216.5
*.03-WATER & SANITARY SERVICES..	117.0	222.3	36.2	16.5	40.1	27.5	275.9	714.5	465.3
69-WHOLESALE & RETAIL TRADE.....	4231.0	8922.1	1221.7	509.1	1159.3	862.0	11476.8	37432.1	16499.6
70-FINANCE & INSURANCE.....	1047.5	1593.9	201.2	54.3	124.8	143.6	1271.8	9584.6	2226.6
71-REAL ESTATE & RENTAL.....	436.0	694.4	97.1	34.4	75.0	65.4	1050.5	2906.8	1098.8
72-HOTELS, REPAIR SVC,EXC AUTO...	586.0	1242.4	179.0	98.1	168.9	145.4	1360.5	4244.2	2286.0
73-BUSINESS SERVICES.....	170.4	460.6	43.5	9.6	14.5	17.0	442.1	3352.7	630.0
75-AUTO REPAIR & SERVICES.....	197.0	329.9	48.1	22.6	51.2	44.1	394.4	1080.0	678.1
76-AMUSEMENTS.....	83.4	233.6	45.2	26.9	24.7	42.7	275.0	2807.6	349.3
77-MED, ED SERV, NONPROF ORGAN...	3902.6	9688.6	1065.0	634.0	763.8	780.4	5514.7	24804.7	12258.4
78-FEDERAL GOVT ENTERPRISES.....	108.4	286.6	37.7	18.7	44.0	26.6	282.3	998.0	457.8
79-STATE & LOCAL GOVT ENTERPRISE.	138.3	636.2	27.7	55.3	110.7	166.0	359.6	2904.6	1742.8
88-DOMESTIC FINAL DEMAND.....	16220.6	23593.9	3650.8	2828.5	4746.1	3657.7	31755.5	69615.0	59498.4
89- ** STATE TOTAL.....	51059.8	81629.3	12758.2	6771.4	16581.8	11291.0	111656.6	300332.6	214471.0

SEE FOOTNOTES AT END OF TABLE

	EAST NORTH CENTRAL				
INDUSTRY NUMBER AND TITLE	IL	IN	MN	OH	WI
01-LIVESTOCK & LIVESTOCK PRODS...	597.4	365.0	400.2	622.5	1387.6
02-OTHER AGRICULTURAL PRODS.....	0.0	0.0	0.0	0.0	0.0
03-FORESTRY & FISHERY PRODS.....	0.1	0.1	0.3	0.2	0.2
04-AG,FORESTRY, & FISHERY SVCES..	4.0	3.2	2.5	3.1	3.3
05-IRON & FERRO ORES MINING.....	0.0	0.0	1855.1	0.0	0.0
06-NONFERROUS METAL ORES MINING..	16.8	0.0	761.3	0.0	106.1
07-COAL MINING.....	229.5	80.7	0.0	119.3	0.0
08-CRUDE PETROLEUM & NATURAL GAS.	1586.3	3.4	303.8	118.2	0.0
09-STONE & CLAY MINING.....	724.9	391.0	329.3	712.4	352.5
10-CHEM & FERTILIZER MINERAL MNG.	101.8	25.3	68.6	25.3	0.0
11-NEW CONSTRUCTION.....	445.6	189.3	272.5	405.9	125.7
12-MAINT & REPAIR CONSTRUCTION...	62.2	23.4	35.2	52.5	25.1
13-ORDNANCE & ACCESSORIES.....	338.4	245.8	107.7	328.8	168.5
14-FOOD & KINDRED PRODUCTS.....	8432.3	2347.1	2477.5	3972.8	2669.3
15-TOBACCO MANUFACTURES.....	9.1	9.1	1.8	18.2	0.0
16-FABRICS.....	14.6	0.0	10.3	65.2	57.5
17-TEXTILE PRODUCTS.....	23.3	5.3	106.0	257.8	65.2
18-APPAREL.....	395.3	109.7	85.3	214.8	88.6
19-MISC TEXTILE PRODUCTS.....	131.6	28.1	531.6	31.3	13.7
20-LUMBER & WOOD PRODUCTS.....	268.3	428.6	405.1	258.6	430.1
21-WOODEN CONTAINERS.....	12.6	8.4	8.8	6.4	15.5
22-HOUSEHOLD FURNITURE.....	242.4	445.1	133.0	190.9	60.6
23-OTHER FURNITURE.....	216.5	96.1	238.4	237.6	48.7
24-PAPER & ALLIED PRODUCTS.....	1325.3	704.2	2525.2	2454.0	7001.0
25-PAPERBOARD CONTAINERS.....	361.2	210.5	360.1	452.4	328.6
26-PRINTING & PUBLISHING.....	2202.1	645.7	838.5	1508.2	506.0
27-CHEMICALS, SELECTED PRODUCTS..	6828.1	490.1	11183.0	31875.4	65.5
28-PLASTICS & SYNTHETICS.....	239.6	15.9	1003.8	2860.5	4.4
29-DRUGS & COSMETICS.....	731.8	95.6	700.6	2190.0	8.9
30-PAINT & ALLIED PRODUCTS.....	154.3	4.0	170.2	525.4	0.9
31-PETROLEUM, RELATED INDUSTRIES.	3978.6	2658.4	857.3	2723.6	102.5
*.01-PETROLEUM REFINING & PRODS.	3776.7	2587.8	789.2	2548.4	95.8
*.02-PAVING MIXTURES & BLOCKS...	57.6	51.9	57.1	102.2	6.7
*.03-ASPHALT FELTS & COATINGS...	144.3	18.7	10.9	73.1	0.0
32-RUBBER, MISC PLASTICS.....	2075.8	1682.5	1660.6	5117.5	803.0
33-LEATHER TANNING & PRODUCTS....	65.5	10.6	45.5	42.0	145.5
34-FOOTWEAR, LEATHER PRODUCTS....	157.9	30.0	40.2	91.5	127.9
35-GLASS & GLASS PRODUCTS.....	1019.7	1176.1	482.7	2046.0	79.5
36-STONE & CLAY PRODUCTS.....	1835.8	1945.6	1150.6	3618.9	992.6
37-PRIMARY IRON, STEEL MFG.....	11739.7	14060.3	9378.5	34168.6	1720.3
38-PRIMARY NONFERROUS MFG.....	9057.4	7493.4	3803.6	11876.2	768.4
39-METAL CONTAINERS.....	471.0	47.6	62.5	190.3	161.1
40-FABRICATED METAL PRODUCTS.....	1012.2	717.8	761.6	1486.2	527.9
41-SCREW MACHINE PRODUCTS, ETC...	2108.0	789.1	3086.7	2523.4	561.9

INDUSTRY NUMBER AND TITLE	IL	IN	MN	OH	WI
42-OTHER FABRICATED METAL PRODS..	1832.0	634.6	1440.1	1905.0	338.2
43-ENGINES & TURBINES.....	488.8	372.7	617.5	183.6	759.0
44-FARM MACHINERY & EQUIPMENT....	1108.1	216.5	278.1	184.6	507.1
45-CONSTRUCTION MACH & EQUIPMENT.	2669.7	204.9	523.0	745.4	629.8
46-MATERIALS HAND MACH & EQUIP...	226.9	29.1	215.5	207.2	83.0
47-METALWORKING MACH & EQUIPMENT.	1197.9	251.7	1934.7	1732.2	361.2
48-SPECIAL MACHINERY & EQUIPMENT.	441.5	150.6	259.1	434.7	252.5
49-GENERAL MACHINERY & EQUIPMENT.	945.8	756.6	562.4	1216.8	442.8
50-MACHINE SHOP PRODUCTS.....	626.2	281.5	725.6	550.6	173.9
51-OFFICE, COMPUTING MACHINES....	247.0	2.6	173.9	536.0	31.3
52-SERVICE INDUSTRY MACHINES.....	345.1	186.7	450.9	503.2	151.4
53-ELECTRIC TRANSMISSION EQUIP...	748.0	940.7	393.1	2487.2	1075.1
54-HOUSEHOLD APPLIANCES.....	523.9	618.3	267.7	1845.4	194.3
55-ELECTRIC LIGHTING EQUIPMENT...	333.1	318.9	48.8	687.3	39.3
56-RADIO, TV, ETC EQUIPMENT.....	1480.6	1283.1	117.0	393.9	179.8
57-ELECTRONIC COMPONENTS.....	790.7	872.7	23.2	522.3	88.1
58-MISC ELECTRICAL MACHINERY.....	178.2	1115.7	344.9	524.6	100.1
59-MOTOR VEHICLES, EQUIPMENT.....	1199.3	2965.0	20519.1	7201.4	1193.0
60-AIRCRAFT & PARTS.....	249.0	1272.8	460.5	3338.9	12.4
61-OTHER TRANSPORT EQUIPMENT.....	770.8	757.4	318.3	433.6	112.6
62-PROFESSIONAL, SCIENT EQUIP....	582.9	67.2	337.0	155.6	147.8
63-MEDICAL, PHOTOG EQUIPMENT.....	292.2	74.3	32.6	11.6	8.3
64-MISC MANUFACTURING.....	589.0	124.9	139.4	459.2	109.7
65-TRANSPORT & WAREHOUSING.....					
*.01-RAILROADS & RELATED SVCES,+++					
*.02-LAND PASSENGER TRANSPORT...	1293.9	86.5	0.0	148.7	0.0
*.03-MOTOR FREIGHT TRANSPORT....					
*.04-WATER TRANSPORT.....					
*.05-AIR TRANSPORT.....					
*.06-PIPELINES, EXC NATURAL GAS.					
*.07-TRANSPORT SERVICES.....					
66-COMMUNIC, EXCL BROADCASTING...	1145.7	624.0	637.9	633.6	260.2
67-RADIO & TV BROADCASTING.....	346.4	90.0	227.3	258.8	78.1
68-ELEC, GAS, WATER, & SANIT SVC.	21147.4	14552.6	15765.3	21778.2	7108.8
*.01-ELECTRIC UTILITIES.....	20536.5	14249.0	15341.1	21240.8	6912.2
*.02-GAS UTILITIES.....	174.8	102.5	80.8	122.5	25.3
*.03-WATER & SANITARY SERVICES..	436.1	201.2	343.4	415.0	171.2
69-WHOLESALE & RETAIL TRADE.....	21343.1	7048.6	13088.3	15629.6	5880.5
70-FINANCE & INSURANCE.....	2770.4	825.9	1383.9	1689.2	670.0
71-REAL ESTATE & RENTAL.....	1565.1	450.7	937.1	1152.0	428.5
72-HOTELS, REPAIR SVC,EXC AUTO...	2647.4	916.3	1616.5	1894.2	764.6
73-BUSINESS SERVICES.....	1140.0	150.6	579.0	540.8	172.2
75-AUTO REPAIR & SERVICES.....	689.0	271.9	554.0	598.0	221.8
76-AMUSEMENTS.....	532.3	122.1	327.0	402.2	112.2
77-MED, ED SERV, NONPROF ORGAN...	11164.5	3313.3	6812.0	8657.3	3523.3
78-FEDERAL GOVT ENTERPRISES.....	957.5	165.7	293.4	388.8	140.6
79-STATE & LOCAL GOVT ENTERPRISE.	1272.5	442.6	1466.2	1715.1	276.6
88-DOMESTIC FINAL DEMAND.....	53619.6	32025.0	46468.0	56618.7	27592.8
89- ** STATE TOTAL.....	200849.6	113166.9	168661.1	252420.3	74060.1

SEE FOOTNOTES AT END OF TABLE

	WEST NORTH CENTRAL						
INDUSTRY NUMBER AND TITLE	IA	KA	MI	MO	NB	ND	SD
01-LIVESTOCK & LIVESTOCK PRODS...	1151.1	336.7	964.3	271.9	480.8	208.1	423.0
02-OTHER AGRICULTURAL PRODS.....	0.0	0.0	16414.0	0.0	0.0	0.0	0.0
03-FORESTRY & FISHERY PRODS.....	0.0	0.0	0.2	0.1	0.0	0.0	0.0
04-AG,FORESTRY, & FISHERY SVCES..	5.6	2.5	5.8	4.2	2.8	1.4	1.7
05-IRON & FERRO ORES MINING.....	19.5	0.0	5535.9	399.9	0.0	0.0	0.0
06-NONFERROUS METAL ORES MINING..	0.0	16.8	0.0	378.0	0.0	0.0	72.5
07-COAL MINING.....	5.5	6.2	0.0	3.8	0.0	6.2	0.0
08-CRUDE PETROLEUM & NATURAL GAS.	0.0	1755.0	6.8	50.6	10.1	13.8	0.0
09-STONE & CLAY MINING.....	344.6	161.0	130.4	379.7	139.4	33.4	96.9
10-CHEM & FERTILIZER MINERAL MNG.	25.3	25.3	25.3	101.8	25.3	0.0	0.0
11-NEW CONSTRUCTION.....	75.7	86.9	99.6	171.8	39.9	14.6	18.3
12-MAINT & REPAIR CONSTRUCTION...	21.6	18.8	16.8	23.5	12.9	7.7	7.9
13-ORDNANCE & ACCESSORIES.....	83.3	11.8	440.8	703.6	83.3	0.0	0.0
14-FOOD & KINDRED PRODUCTS.....	3645.7	1910.9	3422.4	3040.6	1782.8	462.5	832.3
15-TOBACCO MANUFACTURES.....	0.0	0.0	0.0	11.8	0.0	0.0	0.0
16-FABRICS.....	1.1	0.0	14.2	6.6	0.0	0.0	0.0
17-TEXTILE PRODUCTS.....	0.2	0.0	52.9	4.2	0.0	0.0	0.0
18-APPAREL.....	17.6	59.3	63.9	323.0	12.0	0.0	0.0
19-MISC TEXTILE PRODUCTS.....	10.8	4.9	13.5	63.9	1.4	0.0	5.7
20-LUMBER & WOOD PRODUCTS.....	84.3	22.2	172.0	290.9	20.3	0.0	18.2
21-WOODEN CONTAINERS.....	5.1	0.0	4.4	21.1	0.0	0.0	0.0
22-HOUSEHOLD FURNITURE.....	27.6	18.9	28.4	48.0	13.8	0.0	0.0
23-OTHER FURNITURE.....	31.4	10.9	28.5	34.8	14.5	0.0	0.0
24-PAPER & ALLIED PRODUCTS.....	102.4	53.4	2606.7	279.4	17.0	0.0	0.0
25-PAPERBOARD CONTAINERS.....	32.6	32.2	118.0	102.4	8.8	0.0	0.0
26-PRINTING & PUBLISHING.....	226.7	77.1	428.9	607.2	75.1	16.8	18.6
27-CHEMICALS, SELECTED PRODUCTS..	305.1	676.1	159.9	442.6	235.7	0.0	0.0
28-PLASTICS & SYNTHETICS.....	46.1	5.9	4.6	2.4	0.0	0.0	0.0
29-DRUGS & COSMETICS.....	25.8	55.2	16.5	42.5	14.2	0.0	0.0
30-PAINT & ALLIED PRODUCTS.....	5.2	1.2	1.4	6.5	0.0	0.0	0.0
31-PETROLEUM, RELATED INDUSTRIES.	0.0	2064.1	599.5	402.1	16.9	270.6	0.0
*.01-PETROLEUM REFINING & PRODS.	0.0	2035.4	575.0	383.4	16.9	270.6	0.0
*.02-PAVING MIXTURES & BLOCKS...	0.0	24.4	7.3	0.0	0.0	0.0	0.0
*.03-ASPHALT FELTS & COATINGS...	0.0	4.4	17.2	18.7	0.0	0.0	0.0
32-RUBBER, MISC PLASTICS.....	541.5	386.2	261.7	413.6	139.0	0.0	1.9
33-LEATHER TANNING & PRODUCTS....	0.0	0.0	13.7	5.8	0.0	0.0	0.0
34-FOOTWEAR, LEATHER PRODUCTS....	4.8	0.0	17.1	201.4	0.0	0.0	0.0
35-GLASS & GLASS PRODUCTS.....	26.3	0.0	83.7	404.3	0.0	0.0	0.0
36-STONE & CLAY PRODUCTS.....	815.1	941.7	716.4	2012.2	263.5	46.9	79.9
37-PRIMARY IRON, STEEL MFG.....	875.8	140.3	247.8	1452.3	50.7	0.0	68.7
38-PRIMARY NONFERROUS MFG.....	2815.9	265.8	134.5	2149.6	2597.3	0.0	0.0
39-METAL CONTAINERS.....	0.0	0.0	128.1	150.6	25.5	0.0	0.0
40-FABRICATED METAL PRODUCTS.....	116.0	158.0	230.7	352.0	99.4	5.1	12.2
41-SCREW MACHINE PRODUCTS, ETC...	25.4	7.7	198.6	123.1	0.0	0.0	0.0

INDUSTRY NUMBER AND TITLE	IA	KA	MI	MO	NB	ND	SD
42-OTHER FABRICATED METAL PRODS..	116.9	46.5	164.8	264.6	32.5	0.0	0.0
43-ENGINES & TURBINES.....	20.7	0.0	5.1	3.4	0.0	0.0	0.0
44-FARM MACHINERY & EQUIPMENT....	293.3	71.0	87.1	102.5	33.1	5.2	5.5
45-CONSTRUCTION MACH & EQUIPMENT.	240.0	50.1	120.2	53.2	3.2	16.4	0.0
46-MATERIALS HAND MACH & EQUIP...	6.5	13.3	8.7	12.4	0.0	0.0	3.5
47-METALWORKING MACH & EQUIPMENT.	23.0	10.7	47.4	97.9	2.5	0.0	2.6
48-SPECIAL MACHINERY & EQUIPMENT.	22.2	21.8	21.5	43.6	0.0	0.0	0.0
49-GENERAL MACHINERY & EQUIPMENT.	20.8	58.1	66.0	65.4	23.6	0.0	0.0
50-MACHINE SHOP PRODUCTS.....	11.3	100.6	79.9	257.1	9.3	2.7	9.2
51-OFFICE, COMPUTING MACHINES....	0.0	0.0	342.1	25.4	0.0	0.0	0.0
52-SERVICE INDUSTRY MACHINES.....	15.1	17.0	96.3	182.9	0.4	0.0	0.0
53-ELECTRIC TRANSMISSION EQUIP...	78.1	0.0	334.9	446.6	9.9	0.0	6.1
54-HOUSEHOLD APPLIANCES.....	135.3	0.0	240.1	97.6	0.0	0.0	0.0
55-ELECTRIC LIGHTING EQUIPMENT...	0.0	13.9	35.6	167.1	0.0	0.0	0.0
56-RADIO, TV, ETC EQUIPMENT.....	285.1	15.3	151.3	240.3	114.7	0.0	0.0
57-ELECTRONIC COMPONENTS.....	94.3	71.0	228.0	40.3	57.7	0.0	18.7
58-MISC ELECTRICAL MACHINERY.....	29.8	142.4	50.5	51.1	2.0	0.0	0.0
59-MOTOR VEHICLES, EQUIPMENT.....	37.7	522.8	167.5	1198.9	30.3	0.0	11.1
60-AIRCRAFT & PARTS.....	6.4	775.2	40.8	963.7	0.0	0.0	5.4
61-OTHER TRANSPORT EQUIPMENT.....	14.5	80.4	29.4	68.7	27.2	0.0	0.0
62-PROFESSIONAL, SCIENT EQUIP....	49.8	8.6	138.7	61.2	49.0	0.0	0.0
63-MEDICAL, PHOTOG EQUIPMENT.....	0.0	0.0	143.5	7.8	0.0	0.0	0.0
64-MISC MANUFACTURING.....	57.9	11.0	91.9	83.2	15.8	1.3	1.6
65-TRANSPORT & WAREHOUSING.....							
*.01-RAILROADS & RELATED SVCES,+++							
*.02-LAND PASSENGER TRANSPORT...	3.0	0.0	0.0	0.0	47.0	19.7	0.0
*.03-MOTOR FREIGHT TRANSPORT....							
*.04-WATER TRANSPORT.....							
*.05-AIR TRANSPORT.....							
*.06-PIPELINES, EXC NATURAL GAS.							
*.07-TRANSPORT SERVICES.....							
66-COMMUNIC, EXCL BROADCASTING...	174.4	111.1	278.2	223.4	199.2	36.6	37.2
67-RADIO & TV BROADCASTING.....	50.6	30.5	75.8	121.4	33.5	20.3	8.6
68-ELEC, GAS, WATER, & SANIT SVC.	3829.5	4789.9	4659.7	5705.5	2026.2	1586.9	1783.8
*.01-ELECTRIC UTILITIES.....	3591.8	4177.7	4490.1	5428.1	1874.0	1561.7	1756.6
*.02-GAS UTILITIES.....	126.2	524.9	24.3	96.6	94.0	0.1	0.5
*.03-WATER & SANITARY SERVICES..	111.5	87.2	145.3	180.8	58.2	25.1	26.7
69-WHOLESALE & RETAIL TRADE.....	4327.2	3011.0	6063.7	8084.9	2481.6	899.0	863.4
70-FINANCE & INSURANCE.....	411.3	292.5	897.2	1029.4	315.1	75.1	77.4
71-REAL ESTATE & RENTAL.....	223.1	186.4	402.8	451.5	121.6	39.5	38.3
72-HOTELS, REPAIR SVC,EXC AUTO...	545.0	455.5	748.3	996.7	343.9	114.6	121.3
73-BUSINESS SERVICES.....	79.1	58.7	186.3	288.7	55.7	11.1	10.6
75-AUTO REPAIR & SERVICES.....	161.7	128.9	217.0	287.8	92.3	46.6	37.4
76-AMUSEMENTS.....	73.1	55.0	113.6	162.4	56.6	14.2	26.9
77-MED, ED SERV, NONPROF ORGAN...	1999.2	1441.8	3520.1	4258.0	1085.1	471.5	434.5
78-FEDERAL GOVT ENTERPRISES.....	104.0	97.0	161.1	231.9	70.2	32.8	30.7
79-STATE & LOCAL GOVT ENTERPRISE.	387.3	249.0	470.3	414.9	580.9	27.7	55.3
88-DOMESTIC FINAL DEMAND.....	17223.8	12522.0	22321.3	24962.2	9949.4	4053.5	4292.3
89- ** STATE TOTAL.....	43159.8	37174.1	77730.8	69315.1	24716.1	8700.4	9588.4

SEE FOOTNOTES AT END OF TABLE

SOUTH ATLANTIC

INDUSTRY NUMBER AND TITLE	DE	FL	GA	MD	DC	NC	SC	VA	WV
01-LIVESTOCK & LIVESTOCK PRODS...	14.5	79.3	193.3	106.9	0.0	49.5	40.3	46.2	9.3
02-OTHER AGRICULTURAL PRODS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
03-FORESTRY & FISHERY PRODS.....	0.0	1.2	0.8	0.6	0.0	1.0	0.5	1.2	0.3
04-AG,FORESTRY, & FISHERY SVCES..	1.0	3.0	11.2	2.7	0.0	7.4	2.0	2.7	2.2
05-IRON & FERRO ORES MINING.....	0.0	39.0	41.9	0.0	0.0	0.0	19.5	34.1	24.4
06-NONFERROUS METAL ORES MINING..	0.0	37.8	89.3	0.0	0.0	0.0	0.0	51.5	0.0
07-COAL MINING.....	0.0	0.0	0.0	0.6	0.0	0.0	0.0	116.9	625.5
08-CRUDE PETROLEUM & NATURAL GAS.	0.0	3.4	0.0	0.0	0.0	0.0	0.0	54.0	114.8
09-STONE & CLAY MINING.....	44.2	307.2	652.3	85.0	11.9	460.8	243.1	409.8	198.9
10-CHEM & FERTILIZER MINERAL MNG.	51.2	4884.6	101.8	25.3	0.0	229.6	25.3	25.3	25.3
11-NEW CONSTRUCTION.....	18.8	234.5	163.3	130.1	31.3	148.4	86.7	144.0	56.0
12-MAINT & REPAIR CONSTRUCTION...	2.6	43.7	18.4	19.8	3.7	22.0	6.5	20.2	7.3
13-ORDNANCE & ACCESSORIES.....	0.0	546.5	44.0	229.7	0.0	17.1	5.0	89.4	107.5
14-FOOD & KINDRED PRODUCTS.....	315.2	2753.1	2240.9	1177.1	221.6	1285.4	630.4	1196.8	256.1
15-TOBACCO MANUFACTURES.....	0.0	0.0	16.5	0.0	0.0	846.8	17.0	625.0	14.6
16-FABRICS.....	5.4	6.1	8026.3	17.9	0.0	18832.4	15507.6	2181.7	22.2
17-TEXTILE PRODUCTS.....	3.3	0.0	0.0	0.0	0.0	1005.7	1091.6	241.3	0.0
18-APPAREL.....	32.8	85.7	491.2	229.2	0.0	374.8	383.6	242.4	27.5
19-MISC TEXTILE PRODUCTS.....	4.0	22.5	120.3	28.0	0.7	54.2	80.9	23.0	2.1
20-LUMBER & WOOD PRODUCTS.....	9.7	217.2	428.3	80.1	3.8	563.3	338.1	579.6	68.6
21-WOODEN CONTAINERS.....	0.0	0.0	37.5	5.7	0.0	10.1	7.6	18.9	0.0
22-HOUSEHOLD FURNITURE.....	0.0	137.5	112.7	18.2	0.0	960.9	70.3	372.8	9.9
23-OTHER FURNITURE.....	0.0	0.0	22.1	13.7	0.0	84.2	9.4	49.5	4.4
24-PAPER & ALLIED PRODUCTS.....	14.5	512.2	1267.7	364.0	31.5	2130.8	1083.8	1607.1	40.4
25-PAPERBOARD CONTAINERS.....	12.6	309.6	103.6	139.0	2.5	184.6	135.5	108.7	7.4
26-PRINTING & PUBLISHING.....	23.2	346.9	225.2	294.5	322.9	178.0	51.9	163.8	85.9
27-CHEMICALS, SELECTED PRODUCTS..	148.4	866.8	980.0	511.7	25.5	81.4	2193.2	3050.7	14449.1
28-PLASTICS & SYNTHETICS.....	84.7	0.0	81.8	85.7	0.0	45.3	829.4	2000.3	1638.5
29-DRUGS & COSMETICS.....	9.8	261.0	4.5	50.2	0.0	3.6	42.5	110.7	90.2
30-PAINT & ALLIED PRODUCTS.....	0.0	0.0	3.3	5.8	0.0	0.8	6.6	8.8	0.0
31-PETROLEUM, RELATED INDUSTRIES.	535.5	53.3	75.8	147.4	0.0	0.0	15.6	217.0	98.5
*.01-PETROLEUM REFINING & PRODS.	535.5	16.9	39.5	78.9	0.0	0.0	0.0	191.6	39.5
*.02-PAVING MIXTURES & BLOCKS...	0.0	25.4	8.3	68.4	0.0	0.0	0.0	19.2	45.2
*.03-ASPHALT FELTS & COATINGS...	0.0	10.9	28.1	0.0	0.0	0.0	15.6	6.1	13.8
32-RUBBER, MISC PLASTICS.....	180.8	157.7	315.8	710.1	0.0	373.9	242.7	342.7	58.4
33-LEATHER TANNING & PRODUCTS....	25.8	0.0	5.6	1.9	0.0	14.0	0.0	13.4	9.5
34-FOOTWEAR, LEATHER PRODUCTS....	13.3	24.2	47.9	10.9	0.0	40.0	0.0	31.0	5.1
35-GLASS & GLASS PRODUCTS.....	0.0	0.0	116.3	339.0	0.0	342.2	525.3	219.7	1301.5
36-STONE & CLAY PRODUCTS.....	101.3	1542.2	803.6	934.9	82.7	774.8	741.4	923.5	447.8
37-PRIMARY IRON, STEEL MFG.....	189.1	570.5	723.7	4520.0	0.0	378.2	415.2	360.8	7144.6
38-PRIMARY NONFERROUS MFG.....	640.9	561.3	2014.0	2074.6	0.0	2594.6	81.0	549.3	7017.6
39-METAL CONTAINERS.....	0.0	370.0	106.2	176.7	0.0	0.0	0.0	22.1	35.6
40-FABRICATED METAL PRODUCTS.....	66.3	72.9	255.1	225.1	9.6	130.6	78.1	164.2	134.9
41-SCREW MACHINE PRODUCTS, ETC...	16.3	0.0	33.6	66.6	0.0	42.4	37.0	3.7	26.5

INDUSTRY NUMBER AND TITLE	DE	FL	GA	MD	DC	NC	SC	VA	WV
42-OTHER FABRICATED METAL PRODS..	43.6	0.0	76.7	117.7	0.0	97.7	11.8	68.0	166.7
43-ENGINES & TURBINES.....	0.0	8.3	0.0	0.0	0.0	0.0	0.0	2.6	0.0
44-FARM MACHINERY & EQUIPMENT....	0.0	12.4	41.6	0.0	0.0	12.0	4.3	8.2	9.2
45-CONSTRUCTION MACH & EQUIPMENT.	0.0	14.0	39.8	9.5	0.0	7.3	7.4	32.8	40.3
46-MATERIALS HAND MACH & EQUIP...	0.0	0.0	9.7	12.0	0.0	0.0	3.5	4.5	9.6
47-METALWORKING MACH & EQUIPMENT.	0.0	25.7	17.0	107.6	0.0	10.7	39.1	4.0	13.4
48-SPECIAL MACHINERY & EQUIPMENT.	10.0	32.8	50.6	98.1	0.0	80.5	100.6	26.6	2.1
49-GENERAL MACHINERY & EQUIPMENT.	0.0	21.5	20.0	47.2	0.0	12.0	43.1	35.4	2.7
50-MACHINE SHOP PRODUCTS.....	5.7	68.5	22.7	112.6	2.1	19.9	14.9	29.6	20.8
51-OFFICE, COMPUTING MACHINES....	0.0	166.8	33.0	14.8	2.9	56.2	13.7	26.9	0.0
52-SERVICE INDUSTRY MACHINES.....	5.9	15.5	2.3	58.0	0.0	22.1	4.8	21.6	4.2
53-ELECTRIC TRANSMISSION EQUIP...	0.0	68.2	28.1	63.7	0.0	362.9	106.9	446.3	100.0
54-HOUSEHOLD APPLIANCES.....	11.7	6.1	385.8	2.9	0.0	200.5	53.3	8.7	3.0
55-ELECTRIC LIGHTING EQUIPMENT...	0.0	24.2	11.3	13.3	0.0	117.4	37.0	3.5	151.2
56-RADIO, TV, ETC EQUIPMENT.....	0.0	329.5	71.6	271.3	2.8	320.2	6.4	276.9	8.6
57-ELECTRONIC COMPONENTS.....	5.5	206.9	3.0	38.7	0.0	195.6	171.4	125.0	27.2
58-MISC ELECTRICAL MACHINERY.....	11.0	44.2	0.0	26.3	0.0	189.3	33.6	0.0	0.0
59-MOTOR VEHICLES, EQUIPMENT.....	403.1	30.4	70.5	497.2	0.0	33.5	7.5	97.0	67.7
60-AIRCRAFT & PARTS.....	8.6	242.4	730.6	655.5	0.0	4.1	0.0	2.2	0.0
61-OTHER TRANSPORT EQUIPMENT.....	0.0	272.8	681.1	257.0	0.0	30.5	18.5	189.8	82.9
62-PROFESSIONAL, SCIENT EQUIP....	15.9	34.3	26.7	27.3	0.0	96.2	37.8	21.6	3.9
63-MEDICAL, PHOTOG EQUIPMENT.....	0.0	24.8	0.0	14.7	2.0	7.7	16.4	13.9	1.0
64-MISC MANUFACTURING.....	0.9	34.5	64.7	87.6	1.4	45.9	37.3	77.5	15.2
65-TRANSPORT & WAREHOUSING.....									
*.01-RAILROADS & RELATED SVCES,+++									
*.02-LAND PASSENGER TRANSPORT...	0.0	0.0	0.0	400.0	203.8	0.0	0.0	0.0	0.0
*.03-MOTOR FREIGHT TRANSPORT....									
*.04-WATER TRANSPORT.....									
*.05-AIR TRANSPORT.....									
*.06-PIPELINES, EXC NATURAL GAS.									
*.07-TRANSPORT SERVICES.....									
66-COMMUNIC, EXCL BROADCASTING...	44.5	429.0	301.4	301.2	138.5	318.9	119.4	311.3	104.1
67-RADIO & TV BROADCASTING.....	5.3	124.3	73.2	58.0	60.6	82.8	42.6	65.1	28.5
68-ELEC, GAS, WATER, & SANIT SVC.	1426.7	12582.6	6245.7	6916.8	344.2	12689.9	4456.7	7780.4	9048.8
*.01-ELECTRIC UTILITIES.....	1405.5	12299.4	6014.0	6755.0	312.3	12452.5	4333.9	7536.9	8825.0
*.02-GAS UTILITIES.....	0.0	34.9	56.5	12.5	0.4	40.1	22.2	64.4	153.1
*.03-WATER & SANITARY SERVICES..	21.2	248.3	175.2	149.3	31.4	197.2	100.6	179.1	70.7
69-WHOLESALE & RETAIL TRADE.....	906.6	8718.4	6393.7	5027.6	1645.9	6138.6	2454.8	5125.5	1656.5
70-FINANCE & INSURANCE.....	138.0	1032.4	698.5	553.3	340.0	587.0	223.8	548.3	165.8
71-REAL ESTATE & RENTAL.....	62.1	845.6	380.1	539.4	198.7	351.3	164.3	501.5	113.9
72-HOTELS, REPAIR SVC,EXC AUTO...	85.5	1809.0	773.3	654.8	396.4	1588.7	351.1	732.2	228.9
73-BUSINESS SERVICES.....	25.8	365.9	187.6	243.6	195.2	115.6	60.3	160.9	43.5
75-AUTO REPAIR & SERVICES.....	32.1	415.1	349.6	304.1	72.4	260.2	113.3	220.0	66.1
76-AMUSEMENTS.....	39.2	396.9	111.9	166.0	73.4	106.1	43.4	84.5	61.4
77-MED, ED SERV, NONPROF ORGAN...	418.3	3874.4	1918.2	2839.6	2999.7	2759.4	879.2	2536.8	970.0
78-FEDERAL GOVT ENTERPRISES.....	22.0	241.9	214.6	134.3	286.1	173.8	83.8	167.3	52.6
79-STATE & LOCAL GOVT ENTERPRISE.	27.7	829.9	414.9	249.0	55.3	691.6	166.0	691.6	166.0
88-DOMESTIC FINAL DEMAND.....	2944.6	52200.2	30049.5	20652.8	20652.8	35628.1	17268.1	26559.0	8536.8
89- ** STATE TOTAL.....	9269.2	100608.3	71122.0	54598.7	28425.9	96169.8	52597.0	64028.8	56226.6

SEE FOOTNOTES AT END OF TABLE

INDUSTRY NUMBER AND TITLE	EAST SOUTH CENTRAL				WEST SOUTH CENTRAL			
	AL	KY	MS	TE	AS	LA	OK	TX
01-LIVESTOCK & LIVESTOCK PRODS...	120.7	222.9	43.4	112.7	27.2	14.2	46.7	94.0
02-OTHER AGRICULTURAL PRODS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
03-FORESTRY & FISHERY PRODS.....	1.0	0.3	0.8	0.4	0.7	1.7	0.1	2.1
04-AG,FORESTRY, & FISHERY SVCES..	8.0	1.4	8.6	2.7	11.1	3.3	2.4	18.4
05-IRON & FERRO ORES MINING.....	201.9	21.5	0.0	29.3	0.0	0.0	0.0	39.0
06-NONFERROUS METAL ORES MINING..	51.5	34.7	33.6	171.2	228.9	0.0	53.6	37.8
07-COAL MINING.....	69.1	218.6	0.0	25.3	1.4	0.0	2.8	3.6
08-CRUDE PETROLEUM & NATURAL GAS.	43.9	35.1	202.5	0.0	212.6	1350.2	2852.2	11815.8
09-STONE & CLAY MINING.....	164.9	256.2	77.6	311.1	129.8	168.9	111.1	487.4
10-CHEM & FERTILIZER MINERAL MNG.	204.3	51.2	0.0	68.6	68.6	459.2	0.0	332.1
11-NEW CONSTRUCTION.....	79.2	112.9	61.7	105.1	69.5	193.3	93.0	412.1
12-MAINT & REPAIR CONSTRUCTION...	14.1	20.7	8.8	14.8	10.6	12.6	15.2	44.9
13-ORDNANCE & ACCESSORIES.....	173.6	0.0	14.4	94.1	56.1	221.6	81.7	902.1
14-FOOD & KINDRED PRODUCTS.....	1310.0	1329.8	1177.1	2216.2	820.2	1103.2	753.5	4802.3
15-TOBACCO MANUFACTURES.....	11.8	625.0	0.0	51.9	0.0	0.0	0.0	0.0
16-FABRICS.....	3187.3	63.9	9.0	1491.6	60.5	0.0	4.7	555.1
17-TEXTILE PRODUCTS.....	307.3	32.9	14.8	377.7	104.8	4.0	6.9	45.3
18-APPAREL.....	336.7	201.6	277.7	403.5	63.7	35.6	37.1	595.8
19-MISC TEXTILE PRODUCTS.....	31.4	30.1	30.8	41.9	1.6	23.8	4.5	63.8
20-LUMBER & WOOD PRODUCTS.....	672.8	171.4	571.6	375.3	788.2	399.9	29.7	694.0
21-WOODEN CONTAINERS.....	26.0	37.2	41.3	38.6	29.3	8.4	0.0	27.1
22-HOUSEHOLD FURNITURE.....	50.9	109.4	154.5	243.6	158.2	16.2	14.3	161.7
23-OTHER FURNITURE.....	14.2	12.7	13.1	50.5	37.5	1.8	7.7	82.0
24-PAPER & ALLIED PRODUCTS.....	3722.6	112.3	875.4	4068.1	1243.2	1932.7	257.3	1591.8
25-PAPERBOARD CONTAINERS.....	34.9	36.2	48.9	316.3	42.1	89.2	78.3	221.6
26-PRINTING & PUBLISHING.....	127.8	178.3	29.9	250.6	92.7	98.3	104.0	534.9
27-CHEMICALS, SELECTED PRODUCTS..	14932.9	24102.8	1171.7	29809.7	324.4	38106.3	246.6	54765.4
28-PLASTICS & SYNTHETICS.....	1968.4	4996.6	70.6	5720.1	0.0	2210.1	3.1	4184.5
29-DRUGS & COSMETICS.....	16.3	50.9	29.7	417.9	0.9	32.8	2.4	328.7
30-PAINT & ALLIED PRODUCTS.....	36.1	394.4	0.0	11.0	0.2	25.8	4.0	184.2
31-PETROLEUM, RELATED INDUSTRIES.	112.9	740.9	975.2	179.5	467.2	5532.3	2437.3	15241.7
*.01-PETROLEUM REFINING & PRODS.	67.6	716.0	975.2	141.0	445.4	5501.5	2429.2	15126.3
*.02-PAVING MIXTURES & BLOCKS...	24.4	23.4	0.0	25.4	13.0	10.8	0.0	46.6
*.03-ASPHALT FELTS & COATINGS...	20.9	1.6	0.0	13.1	8.8	20.0	8.1	68.7
32-RUBBER, MISC PLASTICS.....	1316.5	284.1	286.9	1043.4	351.2	15.4	254.3	748.4
33-LEATHER TANNING & PRODUCTS....	0.0	9.5	0.0	38.0	0.0	0.0	0.0	2.5
34-FOOTWEAR, LEATHER PRODUCTS....	18.7	17.4	37.0	160.4	80.9	0.0	4.6	38.8
35-GLASS & GLASS PRODUCTS.....	54.4	79.5	63.9	1244.6	102.3	133.7	531.8	243.7
36-STONE & CLAY PRODUCTS.....	1767.8	629.3	448.0	1329.9	425.7	814.3	516.9	2762.1
37-PRIMARY IRON, STEEL MFG.....	11672.1	4282.0	154.3	4296.4	71.8	126.5	152.9	4898.3
38-PRIMARY NONFERROUS MFG.....	8249.8	3100.9	325.2	15941.4	2266.8	770.3	351.9	8468.4
39-METAL CONTAINERS.....	10.8	11.8	8.7	16.3	0.0	54.5	0.0	137.8
40-FABRICATED METAL PRODUCTS.....	278.7	242.0	121.7	336.8	60.2	132.7	179.2	578.2
41-SCREW MACHINE PRODUCTS, ETC...	75.7	102.1	66.6	64.9	12.8	7.1	9.3	50.7

INDUSTRY NUMBER AND TITLE	AL	KY	MS	TE	AS	LA	OK	TX
42-OTHER FABRICATED METAL PRODS..	124.5	253.7	52.5	164.7	49.9	36.6	44.7	378.6
43-ENGINES & TURBINES.....	4.4	0.0	0.0	5.8	0.0	0.0	2.1	10.2
44-FARM MACHINERY & EQUIPMENT....	21.6	125.4	15.0	55.5	6.8	13.6	7.3	39.6
45-CONSTRUCTION MACH & EQUIPMENT.	17.0	12.5	11.1	20.3	0.0	31.9	184.7	1061.8
46-MATERIALS HAND MACH & EQUIP...	10.5	20.7	5.0	19.9	10.0	0.0	0.0	39.4
47-METALWORKING MACH & EQUIPMENT.	3.3	30.4	1.0	39.9	14.9	0.0	3.1	95.3
48-SPECIAL MACHINERY & EQUIPMENT.	18.2	34.0	4.2	47.5	1.9	9.1	14.3	99.5
49-GENERAL MACHINERY & EQUIPMENT.	10.4	136.2	16.7	45.7	22.0	11.6	85.2	231.9
50-MACHINE SHOP PRODUCTS.....	21.4	94.1	6.4	90.5	18.8	46.0	31.3	266.7
51-OFFICE, COMPUTING MACHINES....	1.5	288.7	0.0	0.0	11.2	0.0	18.9	20.0
52-SERVICE INDUSTRY MACHINES.....	31.1	119.2	5.5	58.7	22.1	8.9	12.9	340.6
53-ELECTRIC TRANSMISSION EQUIP...	109.8	435.8	82.3	275.3	147.2	0.0	32.2	215.7
54-HOUSEHOLD APPLIANCES.....	0.0	898.7	35.2	495.9	65.8	20.2	0.0	10.7
55-ELECTRIC LIGHTING EQUIPMENT...	51.8	195.4	58.0	158.2	33.2	0.0	0.0	48.7
56-RADIO, TV, ETC EQUIPMENT.....	57.9	186.3	4.3	879.1	69.3	60.8	194.6	438.8
57-ELECTRONIC COMPONENTS.....	51.4	250.2	6.8	56.8	7.8	27.4	14.7	364.6
58-MISC ELECTRICAL MACHINERY.....	27.7	23.9	3.3	57.2	0.0	4.9	8.6	60.4
59-MOTOR VEHICLES, EQUIPMENT.....	83.3	171.7	106.6	90.9	10.7	9.9	45.8	465.2
60-AIRCRAFT & PARTS.....	118.5	0.0	53.9	98.2	4.0	22.0	256.0	1955.6
61-OTHER TRANSPORT EQUIPMENT.....	180.3	41.3	107.4	81.4	23.3	171.3	24.4	195.9
62-PROFESSIONAL, SCIENT EQUIP....	5.3	17.4	27.1	32.7	6.8	4.2	7.7	52.2
63-MEDICAL, PHOTOG EQUIPMENT.....	0.0	0.0	0.0	0.0	105.4	1.8	0.0	13.2
64-MISC MANUFACTURING.....	26.7	36.1	43.1	62.6	56.2	12.6	15.8	63.9
65-TRANSPORT & WAREHOUSING.....								
*.01-RAILROADS & RELATED SVCES,+++								
*.02-LAND PASSENGER TRANSPORT...	0.0	0.0	0.0	0.0	33.4	0.0	0.0	0.0
*.03-MOTOR FREIGHT TRANSPORT....								
*.04-WATER TRANSPORT.....								
*.05-AIR TRANSPORT.....								
*.06-PIPELINES, EXC NATURAL GAS.								
*.07-TRANSPORT SERVICES.....								
66-COMMUNIC, EXCL BROADCASTING...	196.0	172.8	97.0	270.1	70.9	245.3	132.2	974.7
67-RADIO & TV BROADCASTING.....	56.2	47.5	20.1	81.4	23.6	54.6	44.0	208.2
68-ELEC, GAS, WATER, & SANIT SVC.	14331.9	11599.4	2839.8	9651.8	2177.2	8122.7	5188.5	25837.8
*.01-ELECTRIC UTILITIES.....	14055.0	11207.3	2303.7	9293.5	1991.4	7458.3	4959.6	24752.0
*.02-GAS UTILITIES.....	139.4	265.6	447.3	204.4	110.4	522.3	129.9	663.8
*.03-WATER & SANITARY SERVICES..	137.4	126.5	88.8	154.0	75.4	142.2	99.0	422.1
69-WHOLESALE & RETAIL TRADE.....	3448.1	3283.9	1973.1	5088.1	1909.5	4421.0	3160.4	15405.4
70-FINANCE & INSURANCE.....	369.6	328.5	189.4	540.2	199.8	469.1	406.7	2005.3
71-REAL ESTATE & RENTAL.....	220.5	213.4	111.4	284.9	119.8	275.3	217.7	1039.4
72-HOTELS, REPAIR SVC,EXC AUTO...	440.6	467.6	279.3	588.0	260.4	524.9	484.1	2119.9
73-BUSINESS SERVICES.....	113.5	70.3	37.9	167.4	32.7	132.1	81.9	535.6
75-AUTO REPAIR & SERVICES.....	161.1	136.2	131.6	207.3	88.8	234.2	144.3	678.2
76-AMUSEMENTS.....	33.6	87.4	25.1	90.6	41.9	97.5	57.6	298.7
77-MED, ED SERV, NONPROF ORGAN...	1478.8	1724.4	674.8	2468.1	796.6	1934.0	1497.0	6428.8
78-FEDERAL GOVT ENTERPRISES.....	214.1	184.2	60.2	345.7	64.6	260.3	112.2	432.9
79-STATE & LOCAL GOVT ENTERPRISE.	580.9	193.6	193.6	912.9	110.7	276.6	193.6	1244.8
88-DOMESTIC FINAL DEMAND.....	27432.5	17036.1	14033.6	50333.8	9799.3	22218.9	13559.3	69007.7
89- ** STATE TOTAL.....	102375.4	82147.7	29897.9	145534.9	25470.6	96203.6	38120.9	258767.7

SEE FOOTNOTES AT END OF TABLE

INDUSTRY NUMBER AND TITLE	MOUNTAIN							
	AZ	CO	ID	MT	NV	NM	UT	WY
01-LIVESTOCK & LIVESTOCK PRODS...	171.4	254.2	400.2	329.3	16.5	38.8	80.9	147.1
02-OTHER AGRICULTURAL PRODS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
03-FORESTRY & FISHERY PRODS.....	0.2	0.1	0.9	0.7	0.0	0.1	0.0	0.1
04-AG,FORESTRY, & FISHERY SVCES..	2.7	1.8	1.4	1.2	0.2	1.1	0.8	0.5
05-IRON & FERRO ORES MINING.....	0.0	633.0	39.0	48.8	83.9	267.2	509.1	83.9
06-NONFERROUS METAL ORES MINING..	4892.3	847.4	522.9	336.0	762.4	1100.5	949.3	381.2
07-COAL MINING.....	0.0	17.6	0.0	1.8	0.0	5.5	21.0	2.2
08-CRUDE PETROLEUM & NATURAL GAS.	172.1	492.8	0.0	418.5	0.0	1224.8	0.0	2207.2
09-STONE & CLAY MINING.....	36.3	78.8	62.3	48.7	19.3	36.3	69.1	43.1
10-CHEM & FERTILIZER MINERAL MNG.	68.6	204.3	25.3	178.4	51.2	1220.7	131.1	178.4
11-NEW CONSTRUCTION.....	48.9	84.3	20.6	38.3	17.2	38.6	30.5	16.3
12-MAINT & REPAIR CONSTRUCTION...	7.1	12.2	4.9	6.2	4.8	6.3	5.0	4.8
13-ORDNANCE & ACCESSORIES.....	143.4	58.6	3.5	0.0	3.5	35.2	29.3	0.0
14-FOOD & KINDRED PRODUCTS.....	586.1	1108.1	724.0	141.6	30.0	147.8	546.7	37.9
15-TOBACCO MANUFACTURES.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16-FABRICS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17-TEXTILE PRODUCTS.....	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
18-APPAREL.....	23.9	7.4	0.0	0.0	0.0	2.4	18.0	0.0
19-MISC TEXTILE PRODUCTS.....	1.4	4.6	0.0	0.0	0.0	2.3	2.9	0.0
20-LUMBER & WOOD PRODUCTS.....	69.2	33.4	1017.4	594.4	7.3	35.3	20.2	20.0
21-WOODEN CONTAINERS.....	0.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0
22-HOUSEHOLD FURNITURE.....	10.0	14.7	1.8	0.0	2.8	1.9	7.7	0.0
23-OTHER FURNITURE.....	2.8	8.5	0.0	0.0	0.0	0.0	4.7	0.0
24-PAPER & ALLIED PRODUCTS.....	53.4	38.8	125.5	41.9	0.0	0.0	9.6	0.0
25-PAPERBOARD CONTAINERS.....	6.0	17.4	0.0	0.0	0.0	0.0	3.3	0.0
26-PRINTING & PUBLISHING.....	73.3	134.6	17.2	18.7	21.9	19.3	48.0	8.9
27-CHEMICALS, SELECTED PRODUCTS..	204.3	255.7	5491.1	84.8	244.7	25.8	135.1	62.7
28-PLASTICS & SYNTHETICS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29-DRUGS & COSMETICS.....	1.8	2.1	0.0	0.0	0.0	0.0	4.3	0.0
30-PAINT & ALLIED PRODUCTS.....	2.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
31-PETROLEUM, RELATED INDUSTRIES.	0.0	208.6	0.0	575.0	0.0	0.0	590.4	620.0
*.01-PETROLEUM REFINING & PRODS.	0.0	208.6	0.0	575.0	0.0	0.0	569.4	620.0
*.02-PAVING MIXTURES & BLOCKS...	0.0	0.0	0.0	0.0	0.0	0.0	18.3	0.0
*.03-ASPHALT FELTS & COATINGS...	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0
32-RUBBER, MISC PLASTICS.....	20.8	373.7	0.0	0.0	0.0	5.2	28.1	0.0
33-LEATHER TANNING & PRODUCTS....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34-FOOTWEAR, LEATHER PRODUCTS....	0.0	49.6	0.0	0.0	0.0	0.0	0.0	0.0
35-GLASS & GLASS PRODUCTS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36-STONE & CLAY PRODUCTS.....	314.6	723.3	97.6	111.1	209.3	218.4	373.0	47.4
37-PRIMARY IRON, STEEL MFG.....	215.4	1948.2	0.0	0.0	0.0	0.0	1066.2	0.0
38-PRIMARY NONFERROUS MFG.....	1288.1	52.6	1863.3	4659.0	2226.3	558.6	418.0	186.2
39-METAL CONTAINERS.....	0.0	20.5	0.0	0.0	0.0	0.0	8.5	0.0
40-FABRICATED METAL PRODUCTS.....	49.2	49.0	11.3	6.3	4.9	8.2	55.8	1.2
41-SCREW MACHINE PRODUCTS, ETC...	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0

INDUSTRY NUMBER AND TITLE	AZ	CO	ID	MT	NV	NM	UT	WY
42-OTHER FABRICATED METAL PRODS..	17.7	49.7	2.3	0.0	0.0	0.0	1.1	0.0
43-ENGINES & TURBINES.....	17.9	18.8	0.0	0.0	0.0	0.0	0.0	0.0
44-FARM MACHINERY & EQUIPMENT....	3.8	13.6	10.2	0.0	0.0	0.0	3.3	0.0
45-CONSTRUCTION MACH & EQUIPMENT.	0.0	81.3	9.4	0.0	0.0	0.0	43.2	0.0
46-MATERIALS HAND MACH & EQUIP...	1.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0
47-METALWORKING MACH & EQUIPMENT.	7.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0
48-SPECIAL MACHINERY & EQUIPMENT.	2.1	10.0	0.0	0.0	0.0	0.0	4.6	0.0
49-GENERAL MACHINERY & EQUIPMENT.	3.1	33.6	0.0	0.0	0.0	0.0	45.2	0.0
50-MACHINE SHOP PRODUCTS.....	37.7	36.3	2.7	6.7	0.0	13.5	23.1	0.0
51-OFFICE, COMPUTING MACHINES....	106.1	228.0	0.0	0.0	2.3	0.0	0.0	0.0
52-SERVICE INDUSTRY MACHINES.....	15.2	8.9	0.0	0.0	0.0	0.0	8.7	0.0
53-ELECTRIC TRANSMISSION EQUIP...	13.4	73.1	0.0	0.0	3.0	0.0	0.0	0.0
54-HOUSEHOLD APPLIANCES.....	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0
55-ELECTRIC LIGHTING EQUIPMENT...	4.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0
56-RADIO, TV, ETC EQUIPMENT.....	87.5	5.4	0.0	0.0	0.0	9.2	20.5	0.0
57-ELECTRONIC COMPONENTS.....	269.9	10.2	7.2	0.0	0.0	9.6	12.8	0.0
58-MISC ELECTRICAL MACHINERY.....	0.0	3.3	0.0	0.0	0.0	4.4	0.0	0.0
59-MOTOR VEHICLES, EQUIPMENT.....	1.2	14.0	0.0	0.0	0.0	0.0	19.0	0.0
60-AIRCRAFT & PARTS.....	122.7	113.4	0.0	0.0	0.0	0.0	351.1	2.4
61-OTHER TRANSPORT EQUIPMENT.....	4.7	4.3	16.9	0.0	0.0	0.0	15.5	0.0
62-PROFESSIONAL, SCIENT EQUIP....	93.8	33.2	0.0	0.0	0.0	4.8	3.2	0.0
63-MEDICAL, PHOTOG EQUIPMENT.....	1.8	3.2	0.0	0.0	0.0	0.0	1.4	0.0
64-MISC MANUFACTURING.....	6.9	17.3	2.4	1.4	1.8	4.7	8.5	0.0
65-TRANSPORT & WAREHOUSING.....								
*.01-RAILROADS & RELATED SVCES,+++								
*.02-LAND PASSENGER TRANSPORT...	0.0	0.0	0.0	271.5	0.0	0.0	0.0	0.0
*.03-MOTOR FREIGHT TRANSPORT....								
*.04-WATER TRANSPORT.....								
*.05-AIR TRANSPORT.....								
*.06-PIPELINES, EXC NATURAL GAS.								
*.07-TRANSPORT SERVICES.....								
66-COMMUNIC, EXCL BROADCASTING...	57.0	85.6	56.8	23.3	36.4	36.1	45.3	11.5
67-RADIO & TV BROADCASTING.....	33.6	46.6	9.5	10.3	10.5	20.7	19.3	5.1
68-ELEC, GAS, WATER, & SANIT SVC.	3406.7	3103.5	2265.3	2963.5	1385.0	3153.6	1136.1	1340.3
*.01-ELECTRIC UTILITIES.....	3123.3	3007.0	2225.1	2928.4	1366.7	2889.6	1093.2	1288.1
*.02-GAS UTILITIES.....	218.1	14.8	12.7	6.9	0.2	223.9	2.1	39.6
*.03-WATER & SANITARY SERVICES..	65.2	81.7	27.5	28.3	18.1	40.1	40.9	12.6
69-WHOLESALE & RETAIL TRADE.....	2014.3	3032.6	881.2	908.1	666.0	1031.6	1227.8	377.2
70-FINANCE & INSURANCE.....	265.9	417.0	77.1	84.2	68.3	94.7	136.0	36.7
71-REAL ESTATE & RENTAL.....	197.1	258.4	54.4	54.4	66.6	81.2	102.5	28.5
72-HOTELS, REPAIR SVC,EXC AUTO...	364.6	426.4	128.7	109.0	589.0	157.7	144.0	95.9
73-BUSINESS SERVICES.....	84.3	105.3	25.5	16.6	49.0	91.7	39.5	7.5
75-AUTO REPAIR & SERVICES.....	113.7	142.5	40.1	39.4	40.6	52.0	64.1	20.3
76-AMUSEMENTS.....	54.4	92.7	16.5	13.8	330.2	27.2	32.8	10.9
77-MED, ED SERV, NONPROF ORGAN...	1212.8	1777.1	324.4	463.0	184.4	476.7	828.6	128.1
78-FEDERAL GOVT ENTERPRISES.....	65.1	96.0	24.1	39.2	19.9	33.9	33.7	13.0
79-STATE & LOCAL GOVT ENTERPRISE.	249.0	249.0	83.0	83.0	27.7	55.3	138.3	27.7
88-DOMESTIC FINAL DEMAND.....	9754.9	9526.3	6789.9	4616.4	5121.4	3869.2	4746.1	1767.4
89- ** STATE TOTAL.....	27457.3	28192.1	21347.7	17705.4	12344.9	14929.1	14733.3	8949.7

SEE FOOTNOTES AT END OF TABLE

INDUSTRY NUMBER AND TITLE	PACIFIC AK	CA	OR	WA	HA	U. S. TOTAL US
01-LIVESTOCK & LIVESTOCK PRODS...	10.8	3061.5	163.8	178.4	65.2	16132.0
02-OTHER AGRICULTURAL PRODS.....	0.0	0.0	0.0	0.0	0.0	16414.0
03-FORESTRY & FISHERY PRODS.....	1.7	4.3	4.9	2.6	0.1	33.6
04-AG,FORESTRY, & FISHERY SVCES..	0.0	16.4	1.8	2.0	0.1	167.9
05-IRON & FERRO ORES MINING.....	0.0	17.6	17.6	17.6	0.0	10630.0
06-NONFERROUS METAL ORES MINING..	285.6	372.8	56.7	52.5	0.0	13104.0
07-COAL MINING.....	3.4	0.0	0.0	0.0	0.0	1975.0
08-CRUDE PETROLEUM & NATURAL GAS.	212.6	6557.2	0.0	0.0	0.0	32020.0
09-STONE & CLAY MINING.....	26.6	851.8	218.2	214.2	48.8	11880.0
10-CHEM & FERTILIZER MINERAL MNG.	0.0	535.7	25.3	0.0	0.0	9773.0
11-NEW CONSTRUCTION.....	27.7	587.7	66.6	135.3	27.7	6667.0
12-MAINT & REPAIR CONSTRUCTION...	1.4	109.7	13.0	19.1	4.2	1007.7
13-ORDNANCE & ACCESSORIES.....	0.0	5144.0	0.0	1326.1	0.0	14025.0
14-FOOD & KINDRED PRODUCTS.....	89.0	8383.3	896.4	1610.5	323.9	92189.9
15-TOBACCO MANUFACTURES.....	0.0	0.0	0.0	0.0	0.0	2515.7
16-FABRICS.....	0.0	35.9	11.8	2.9	0.0	56608.0
17-TEXTILE PRODUCTS.....	0.0	152.8	2.0	0.0	0.0	5969.0
18-APPAREL.....	0.0	897.5	32.9	61.0	14.2	15938.0
19-MISC TEXTILE PRODUCTS.....	0.0	168.2	12.9	16.6	1.1	2733.0
20-LUMBER & WOOD PRODUCTS.....	51.3	3879.0	5691.4	2799.9	13.2	24380.0
21-WOODEN CONTAINERS.....	0.0	203.7	25.9	4.7	0.0	676.6
22-HOUSEHOLD FURNITURE.....	0.0	333.6	49.5	64.2	9.9	5346.1
23-OTHER FURNITURE.....	0.0	193.8	6.8	19.4	0.0	2365.6
24-PAPER & ALLIED PRODUCTS.....	74.1	2626.7	6118.8	11093.2	25.3	80554.9
25-PAPERBOARD CONTAINERS.....	0.0	634.0	99.2	374.1	8.1	7365.0
26-PRINTING & PUBLISHING.....	7.4	1498.6	99.2	173.5	30.4	19069.0
27-CHEMICALS, SELECTED PRODUCTS..	0.0	12232.3	451.2	6991.1	27.8	283589.9
28-PLASTICS & SYNTHETICS.....	0.0	884.2	51.0	88.3	0.0	30535.0
29-DRUGS & COSMETICS.....	0.0	1007.3	3.5	31.9	6.1	9153.0
30-PAINT & ALLIED PRODUCTS.....	0.0	288.3	4.7	56.1	0.0	2125.0
31-PETROLEUM, RELATED INDUSTRIES.	84.6	847.8	580.8	892.8	152.2	53624.0
*.01-PETROLEUM REFINING & PRODS.	84.6	687.2	411.5	823.0	152.2	51540.0
*.02-PAVING MIXTURES & BLOCKS...	0.0	114.7	6.2	32.6	0.0	1202.0
*.03-ASPHALT FELTS & COATINGS...	0.0	45.9	163.1	37.2	0.0	882.3
32-RUBBER, MISC PLASTICS.....	0.0	2840.5	30.7	47.7	0.0	34812.0
33-LEATHER TANNING & PRODUCTS....	0.0	33.8	0.0	0.0	0.0	974.0
34-FOOTWEAR, LEATHER PRODUCTS....	0.0	59.8	1.2	2.2	1.2	2926.1
35-GLASS & GLASS PRODUCTS.....	0.0	1294.0	71.3	53.1	0.0	17214.0
36-STONE & CLAY PRODUCTS.....	0.0	5945.8	341.5	590.9	142.5	50154.0
37-PRIMARY IRON, STEEL MFG.....	0.0	5347.3	6050.6	4220.2	81.4	177499.9
38-PRIMARY NONFERROUS MFG.....	0.0	5075.7	12961.7	37226.6	0.0	196079.9
39-METAL CONTAINERS.....	0.0	549.5	39.6	95.6	25.0	3925.9
40-FABRICATED METAL PRODUCTS.....	0.0	1275.0	112.9	201.3	18.2	14431.0
41-SCREW MACHINE PRODUCTS, ETC...	0.0	699.9	8.7	15.4	0.0	14628.0

INDUSTRY NUMBER AND TITLE	AK	CA	OR	WA	HA	US
42-OTHER FABRICATED METAL PRODS..	0.0	1130.4	70.8	46.5	0.0	15308.0
43-ENGINES & TURBINES.....	0.0	130.4	0.0	0.0	0.0	4160.0
44-FARM MACHINERY & EQUIPMENT....	0.0	69.6	8.3	10.0	0.0	3570.0
45-CONSTRUCTION MACH & EQUIPMENT.	0.0	297.2	24.5	48.0	0.0	8051.7
46-MATERIALS HAND MACH & EQUIP...	0.0	67.8	37.7	3.9	0.0	1477.2
47-METALWORKING MACH & EQUIPMENT.	0.0	341.4	3.8	16.5	0.0	9423.0
48-SPECIAL MACHINERY & EQUIPMENT.	0.0	268.9	40.4	36.4	3.7	4546.3
49-GENERAL MACHINERY & EQUIPMENT.	0.0	457.4	7.5	19.6	0.0	9057.1
50-MACHINE SHOP PRODUCTS.....	0.0	931.8	36.7	122.7	6.5	6774.0
51-OFFICE, COMPUTING MACHINES....	0.0	631.2	0.0	3.7	0.0	4918.1
52-SERVICE INDUSTRY MACHINES.....	0.0	169.0	8.9	5.9	0.0	3855.7
53-ELECTRIC TRANSMISSION EQUIP...	0.0	1186.3	319.0	74.3	0.0	17058.0
54-HOUSEHOLD APPLIANCES.....	0.0	159.2	8.2	8.5	0.0	7027.7
55-ELECTRIC LIGHTING EQUIPMENT...	0.0	247.1	0.0	23.3	0.0	5159.0
56-RADIO, TV, ETC EQUIPMENT.....	0.0	1900.9	9.7	57.8	0.0	15635.0
57-ELECTRONIC COMPONENTS.....	0.0	1604.3	39.2	6.5	0.0	14269.0
58-MISC ELECTRICAL MACHINERY.....	0.0	149.1	18.2	3.8	0.0	4050.7
59-MOTOR VEHICLES, EQUIPMENT.....	0.0	2351.2	32.0	45.7	0.0	43674.0
60-AIRCRAFT & PARTS.....	0.0	6822.8	27.4	2273.6	0.0	28848.0
61-OTHER TRANSPORT EQUIPMENT.....	0.0	630.6	55.5	191.9	4.8	7531.5
62-PROFESSIONAL, SCIENT EQUIP....	0.0	483.0	3.8	2.9	0.0	4434.6
63-MEDICAL, PHOTOG EQUIPMENT.....	0.0	319.3	41.6	9.3	0.0	3422.5
64-MISC MANUFACTURING.....	0.0	557.4	17.0	17.4	1.0	7250.3
65-TRANSPORT & WAREHOUSING.....						62778.0
*.01-RAILROADS & RELATED SVCES,+++	""NATIONAL TOTAL = 3989.0. INCLUDED WITH 65.02.""					
*.02-LAND PASSENGER TRANSPORT...	0.0	276.1	0.0	125.9	0.0	15169.0
*.03-MOTOR FREIGHT TRANSPORT....						1881.0
*.04-WATER TRANSPORT.....						2318.0
*.05-AIR TRANSPORT.....						1998.0
*.06-PIPELINES, EXC NATURAL GAS.	49.2	1676.2	49.2	192.7	0.0	41210.0
*.07-TRANSPORT SERVICES.....						201.5
66-COMMUNIC, EXCL BROADCASTING...	8.2	2054.8	158.3	276.1	70.9	15740.0
67-RADIO & TV BROADCASTING.....	6.3	1009.8	39.4	65.1	18.5	5576.0
68-ELEC, GAS, WATER, & SANIT SVC.	284.3	35412.1	5836.4	19716.1	966.3	399999.9
*.01-ELECTRIC UTILITIES.....	273.3	34479.2	5740.4	19566.8	937.2	386899.8
*.02-GAS UTILITIES.....	0.0	169.0	17.4	22.7	0.0	5273.0
*.03-WATER & SANITARY SERVICES..	11.0	763.9	78.6	126.6	29.1	7859.0
69-WHOLESALE & RETAIL TRADE.....	330.7	31420.7	3366.7	4915.6	1016.5	298979.9
70-FINANCE & INSURANCE.....	24.9	4851.9	340.0	568.0	136.1	42582.0
71-REAL ESTATE & RENTAL.....	43.1	3257.1	219.8	443.9	139.2	23040.0
72-HOTELS, REPAIR SVC,EXC AUTO...	53.3	4800.9	424.9	595.7	228.9	41378.0
73-BUSINESS SERVICES.....	13.3	1796.8	90.4	165.0	48.9	13517.0
75-AUTO REPAIR & SERVICES.....	13.9	1560.3	154.6	220.7	51.2	12280.0
76-AMUSEMENTS.....	8.3	2003.9	61.5	114.9	39.1	10507.0
77-MED, ED SERV, NONPROF ORGAN...	138.3	17996.0	1655.3	2571.2	633.6	170679.9
78-FEDERAL GOVT ENTERPRISES.....	41.8	941.5	172.1	203.5	37.7	9706.0
79-STATE & LOCAL GOVT ENTERPRISE.	27.7	2821.6	387.3	1217.2	55.3	25920.0
88-DOMESTIC FINAL DEMAND.....	1221.5	98429.3	74101.8	44113.7	3548.5	1232729.0
89- ** STATE TOTAL.....	3140.9	305861.8	122191.6	147214.1	8033.4	3936150.0

* NOTE: COUNT ONLY SUBSECTORS WITHIN I/O SECTORS 31, 65, AND 68 WHEN SUMMING COLUMNS.
** NOTE: COLUMNS MAY NOT SUM EXACTLY TO STATE TOTALS OR ROWS TO NATIONAL TOTALS DUE TO INDIVIDUAL ROUNDING.

APPENDIX K - RPP'S

(10**9 BTU). ONE UNIT IN THIS TABLE APPROXIMATES 172 BARRELS OF FUEL OIL

	NEW ENGLAND						MIDDLE ATLANTIC		
INDUSTRY NUMBER AND TITLE	CT	MA	RI	VT	ME	NH	NJ	NY	PA
01-LIVESTOCK & LIVESTOCK PRODS...	760.7	760.7	117.8	1764.1	1518.4	444.8	1363.8	11374.4	9774.8
02-OTHER AGRICULTURAL PRODS.....	782.8	884.0	142.6	424.7	1164.9	202.3	2791.5	7642.8	6277.6
03-FORESTRY & FISHERY PRODS.....	78.6	1492.5	216.8	50.3	1005.5	97.4	408.5	659.8	326.8
04-AG,FORESTRY, & FISHERY SVCES..	15.5	17.0	1.9	7.8	56.5	8.2	17.4	81.7	96.2
05-IRON & FERRO ORES MINING.....	0.0	0.0	0.0	0.0	0.0	0.0	15.0	219.1	322.4
06-NONFERROUS METAL ORES MINING..	0.0	0.0	0.0	0.0	0.0	0.0	28.5	284.5	29.4
07-COAL MINING.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5231.8
08-CRUDE PETROLEUM & NATURAL GAS.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	130.5
09-STONE & CLAY MINING.....	241.2	292.6	232.3	425.7	30.2	46.1	1397.6	1938.5	2314.6
10-CHEM & FERTILIZER MINERAL MNG.	0.0	0.0	58.1	28.7	28.7	0.0	28.7	28.7	28.7
11-NEW CONSTRUCTION.....	15026.5	26912.0	3742.3	2042.5	2882.4	2848.0	33249.7	57355.4	48125.8
12-MAINT & REPAIR CONSTRUCTION...	3722.9	5378.3	827.7	405.2	967.1	850.2	8071.8	14312.0	8736.7
13-ORDNANCE & ACCESSORIES.....	8676.8	2484.6	0.0	69.6	27.2	0.0	576.5	728.9	3173.5
14-FOOD & KINDRED PRODUCTS.....	2006.1	10870.0	1445.2	35.5	4347.7	1457.9	22889.1	20821.2	16518.0
15-TOBACCO MANUFACTURES.....	16.7	0.0	0.0	0.0	0.0	0.0	20.1	3.0	492.0
16-FABRICS.....	3384.9	4788.5	3666.0	5.4	1939.5	2371.4	3619.4	2466.3	4197.6
17-TEXTILE PRODUCTS.....	1591.3	2484.9	897.3	0.0	165.4	215.4	2564.9	1918.7	2395.5
18-APPAREL.....	1620.8	746.1	99.8	0.0	85.8	0.0	1887.6	2769.4	6380.2
19-MISC TEXTILE PRODUCTS.....	125.1	58.8	10.0	0.0	5.7	0.0	157.1	104.7	188.4
20-LUMBER & WOOD PRODUCTS.....	252.6	604.0	0.0	372.0	710.5	986.7	923.3	1346.7	1951.4
21-WOODEN CONTAINERS.....	7.8	13.6	0.0	5.0	1.7	16.6	37.4	19.9	19.7
22-HOUSEHOLD FURNITURE.....	35.8	460.8	0.6	47.6	5.9	20.8	192.3	464.8	414.3
23-OTHER FURNITURE.....	35.0	125.0	4.5	0.0	4.5	4.7	114.0	434.3	305.4
24-PAPER & ALLIED PRODUCTS.....	7417.1	20149.2	736.0	641.4	54440.9	9517.3	15260.7	16945.7	15618.5
25-PAPERBOARD CONTAINERS.....	548.2	873.0	89.2	30.0	125.7	104.9	1385.9	984.4	1132.9
26-PRINTING & PUBLISHING.....	873.1	1721.4	318.2	30.9	95.7	263.9	2428.4	3061.9	1842.9
27-CHEMICALS, SELECTED PRODUCTS..	7258.2	8646.8	825.8	0.0	1556.6	300.6	68890.1	9539.1	18534.7
28-PLASTICS & SYNTHETICS.....	10100.1	28332.6	1175.8	562.4	0.0	689.9	33267.8	4478.7	34155.2
29-DRUGS & COSMETICS.....	2286.6	1178.7	28.0	0.0	73.4	0.0	10028.6	2510.8	3338.6
30-PAINT & ALLIED PRODUCTS.....	335.4	1813.6	67.0	0.0	0.0	0.0	9234.1	1361.1	3184.7
31-PETROLEUM, RELATED INDUSTRIES.	13468.9	22731.7	717.9	0.0	0.0	3661.6	231485.6	28646.4	230760.9
*.01-PETROLEUM REFINING & PRODS.	8615.3	5743.5	717.9	0.0	0.0	0.0	203192.4	3876.8	205083.1
*.02-PAVING MIXTURES & BLOCKS...	3661.6	11738.2	0.0	0.0	0.0	3661.6	13305.9	24769.7	15873.0
*.03-ASPHALT FELTS & COATINGS...	1192.1	5250.0	0.0	0.0	0.0	0.0	14987.3	0.0	9804.9
32-RUBBER, MISC PLASTICS.....	5182.6	5715.8	51.3	6.7	823.8	213.3	5518.6	1896.0	2675.8
33-LEATHER TANNING & PRODUCTS....	0.0	2159.5	0.0	17.1	549.7	449.4	1032.8	254.9	310.3
34-FOOTWEAR, LEATHER PRODUCTS....	106.3	1097.9	4.2	1.4	704.4	574.2	314.2	421.7	359.9
35-GLASS & GLASS PRODUCTS.....	184.4	15.7	305.2	0.0	0.0	0.0	3674.2	1295.9	1986.4
36-STONE & CLAY PRODUCTS.....	2608.3	5930.6	505.5	967.0	2239.6	919.2	15086.9	11889.5	8246.8
37-PRIMARY IRON, STEEL MFG.....	2762.6	2493.3	435.4	56.8	80.7	111.1	4490.1	11496.5	64818.7
38-PRIMARY NONFERROUS MFG.....	3009.8	1211.1	903.8	62.0	19.8	69.3	5692.6	5015.3	3463.6
39-METAL CONTAINERS.....	0.0	131.2	0.0	0.0	11.3	0.0	920.1	208.9	330.8
40-FABRICATED METAL PRODUCTS.....	631.0	1491.8	94.2	6.5	26.4	94.7	1556.0	1674.2	3460.5
41-SCREW MACHINE PRODUCTS, ETC...	1579.9	1423.5	152.4	1.9	0.0	31.9	1024.2	1236.7	1478.4

INDUSTRY NUMBER AND TITLE	CT	MA	RI	VT	ME	NH	NJ	NY	PA
42-OTHER FABRICATED METAL PRODS..	6030.9	9863.1	714.1	5.9	2.4	299.0	5049.6	3880.7	5245.2
43-ENGINES & TURBINES.....	398.4	1690.1	0.0	0.0	0.0	0.0	451.8	1247.3	2374.5
44-FARM MACHINERY & EQUIPMENT....	0.0	21.9	0.0	0.0	0.0	0.0	18.7	49.1	235.5
45-CONSTRUCTION MACH & EQUIPMENT.	0.0	39.2	0.0	0.0	0.0	126.4	264.5	138.0	1376.5
46-MATERIALS HAND MACH & EQUIP...	13.1	99.5	0.0	0.0	0.0	0.0	267.9	154.5	459.3
47-METALWORKING MACH & EQUIPMENT.	1659.5	1486.2	413.0	258.9	19.5	96.8	641.6	576.9	1361.1
48-SPECIAL MACHINERY & EQUIPMENT.	614.3	1990.2	359.9	7.1	116.3	250.4	1140.6	706.3	1261.3
49-GENERAL MACHINERY & EQUIPMENT.	1707.3	894.3	81.2	6.3	0.0	187.9	1262.2	949.0	1957.8
50-MACHINE SHOP PRODUCTS.....	646.1	634.6	87.2	8.8	52.8	35.0	503.5	639.1	730.5
51-OFFICE, COMPUTING MACHINES....	323.6	834.8	0.0	35.9	0.0	19.2	278.8	793.8	151.3
52-SERVICE INDUSTRY MACHINES.....	105.7	179.6	7.5	11.6	49.4	0.0	494.1	360.7	444.4
53-ELECTRIC TRANSMISSION EQUIP...	629.6	912.6	10.2	0.0	4.3	164.7	759.6	1132.6	1607.8
54-HOUSEHOLD APPLIANCES.....	541.0	174.5	27.0	0.0	0.0	0.0	267.7	340.9	234.2
55-ELECTRIC LIGHTING EQUIPMENT...	411.5	678.8	129.0	6.9	0.0	14.8	816.0	570.6	509.2
56-RADIO, TV, ETC EQUIPMENT.....	36.1	181.2	8.6	0.0	0.4	20.8	257.7	183.1	78.9
57-ELECTRONIC COMPONENTS.....	531.0	1282.8	68.8	195.2	53.6	159.9	1075.1	2338.2	1067.2
58-MISC ELECTRICAL MACHINERY.....	149.2	304.4	70.7	10.6	26.7	30.0	431.9	263.0	270.1
59-MOTOR VEHICLES, EQUIPMENT.....	341.6	784.3	7.3	0.0	0.0	4.0	2671.5	2569.4	940.0
60-AIRCRAFT & PARTS.....	5340.4	679.1	5.5	23.6	79.6	3.1	541.1	2463.1	1251.2
61-OTHER TRANSPORT EQUIPMENT.....	109.4	73.4	0.9	0.0	48.7	0.0	52.3	66.6	196.2
62-PROFESSIONAL, SCIENT EQUIP....	1252.2	761.2	225.5	3.6	0.5	29.8	764.2	913.5	374.6
63-MEDICAL, PHOTOG EQUIPMENT.....	400.3	1699.8	51.7	2.1	0.0	45.8	477.7	4563.9	38.9
64-MISC MANUFACTURING.....	2456.5	1689.2	600.0	2.8	2.3	46.1	966.6	1855.9	1069.8
65-TRANSPORT & WAREHOUSING.....									
*.01-RAILROADS & RELATED SVCES..	3465.5	3633.5	279.5	335.4	2068.2	55.9	10118.4	26156.0	23869.3
*.02-LAND PASSENGER TRANSPORT, +++									
*.03-MOTOR FREIGHT TRANSPORT....	8621.8	11829.0	2351.5	783.9	2921.5	7304.4	23943.5	25085.9	40901.5
*.04-WATER TRANSPORT.....	1815.0	5445.1	605.0	60.5	6715.7	121.0	24200.3	140373.8	41019.3
*.05-AIR TRANSPORT.....	3472.7	32256.1	560.1	100.8	112.0	336.1	20723.9	155129.5	34836.6
*.06-PIPELINES, EXC NATURAL GAS.	10.9	10.2	0.7	60.9	89.1	37.0	19.6	106.5	550.0
*.07-TRANSPORT SERVICES.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66-COMMUNIC, EXCL BROADCASTING...	2050.0	2194.7	319.0	102.9	250.8	181.4	2665.1	7247.2	3367.1
67-RADIO & TV BROADCASTING.....	4.7	10.7	2.1	0.5	1.8	0.7	2.1	124.8	28.5
68-ELEC, GAS, WATER, & SANIT SVC.	55064.2	140125.6	13031.4	15.3	30436.6	12928.0	133121.3	194187.9	53702.2
*.01-ELECTRIC UTILITIES.....	54949.8	139877.3	12996.7	0.0	30399.6	12902.3	132851.3	193380.5	53220.9
*.02-GAS UTILITIES.....	6.3	42.9	1.3	0.1	0.1	0.3	15.1	147.7	51.8
*.03-WATER & SANITARY SERVICES..	108.1	205.4	33.4	15.2	37.0	25.4	254.8	659.7	429.6
69-WHOLESALE & RETAIL TRADE.....	21384.8	45095.3	6175.0	2573.3	5859.7	4356.9	58008.2	189197.1	83396.3
70-FINANCE & INSURANCE.....	2375.2	3614.4	456.2	123.2	283.0	325.6	2884.1	21733.9	5049.0
71-REAL ESTATE & RENTAL.....	14319.9	22803.9	3188.9	1130.8	2464.0	2147.8	34501.6	95466.5	36087.4
72-HOTELS, REPAIR SVC,EXC AUTO...	3461.1	7338.0	1057.3	579.2	997.4	858.8	8035.8	25068.3	13502.6
73-BUSINESS SERVICES.....	1737.1	4695.3	443.4	97.8	148.1	173.0	4507.2	34179.3	6422.9
75-AUTO REPAIR & SERVICES.....	2933.6	4914.4	716.2	336.8	762.5	657.3	5874.7	16084.9	10100.2
76-AMUSEMENTS.....	148.5	416.1	80.5	47.9	44.0	76.0	490.0	5002.1	622.3
77-MED, ED SERV, NONPROF ORGAN...	5116.7	12702.9	1396.4	831.3	1001.5	1023.1	7230.4	32522.5	16072.3
78-FEDERAL GOVT ENTERPRISES.....	515.7	1363.4	179.5	88.9	209.5	126.7	1343.0	4748.4	2178.1
79-STATE & LOCAL GOVT ENTERPRISE.	231.3	1063.9	46.3	92.5	185.0	277.5	601.3	4856.7	2914.0
88-DOMESTIC FINAL DEMAND.....	215028.9	488455.6	91327.7	47841.9	102628.8	69267.6	528189.7	1036271.7	681126.5
89- ** STATE TOTAL.....	462188.1	980411.9	142957.7	63851.3	233330.9	128360.1	1377562.0	2268202.0	1592105.0

SEE FOOTNOTES AT END OF TABLE

INDUSTRY NUMBER AND TITLE	EAST NORTH CENTRAL				
	IL	IN	MN	OH	WI
01-LIVESTOCK & LIVESTOCK PRODS...	20731.9	12958.4	8893.9	12494.8	21373.3
02-OTHER AGRICULTURAL PRODS.....	48165.4	19945.1	12133.6	17046.1	7750.3
03-FORESTRY & FISHERY PRODS.....	119.4	116.3	320.5	176.0	257.6
04-AG,FORESTRY, & FISHERY SVCES..	125.8	101.1	77.3	97.7	103.0
05-IRON & FERRO ORES MINING.....	0.0	0.0	1584.4	0.0	0.0
06-NONFERROUS METAL ORES MINING..	14.3	0.0	646.6	0.0	90.1
07-COAL MINING.....	1790.6	551.6	0.0	2754.4	0.0
08-CRUDE PETROLEUM & NATURAL GAS.	285.3	2.2	199.1	77.4	0.0
09-STONE & CLAY MINING.....	2268.5	1223.8	1030.5	2229.4	1103.2
10-CHEM & FERTILIZER MINERAL MNG.	115.4	28.7	77.7	28.7	0.0
11-NEW CONSTRUCTION.....	59408.9	25236.0	36331.9	54112.9	16761.3
12-MAINT & REPAIR CONSTRUCTION...	12501.4	4709.9	7067.5	10553.5	5047.6
13-ORDNANCE & ACCESSORIES.....	1202.1	1205.3	45.3	532.8	478.1
14-FOOD & KINDRED PRODUCTS.....	11292.4	2316.7	3805.2	2960.8	5834.8
15-TOBACCO MANUFACTURES.....	16.5	16.5	3.3	33.1	0.0
16-FABRICS.....	120.5	0.0	0.0	0.0	24.9
17-TEXTILE PRODUCTS.....	264.6	12.4	0.0	0.0	38.9
18-APPAREL.....	716.0	188.2	47.3	0.0	317.9
19-MISC TEXTILE PRODUCTS.....	93.3	18.9	115.4	0.0	19.2
20-LUMBER & WOOD PRODUCTS.....	907.7	276.0	274.8	249.8	793.9
21-WOODEN CONTAINERS.....	15.5	1.9	2.2	2.2	10.3
22-HOUSEHOLD FURNITURE.....	450.9	384.0	108.3	26.2	45.4
23-OTHER FURNITURE.....	380.3	78.3	183.4	30.8	34.5
24-PAPER & ALLIED PRODUCTS.....	1990.9	547.3	3252.9	1186.6	3510.5
25-PAPERBOARD CONTAINERS.....	246.0	74.2	210.4	99.2	74.7
26-PRINTING & PUBLISHING.....	3494.0	699.3	247.1	294.6	587.2
27-CHEMICALS, SELECTED PRODUCTS..	8997.5	1306.4	4229.9	3742.0	522.4
28-PLASTICS & SYNTHETICS.....	2745.5	368.0	3302.1	2920.5	306.1
29-DRUGS & COSMETICS.....	1287.0	340.2	353.7	343.1	94.6
30-PAINT & ALLIED PRODUCTS.....	2468.4	130.0	781.8	748.8	86.5
31-PETROLEUM, RELATED INDUSTRIES.	123756.6	193470.6	32391.3	71490.4	9656.6
*.01-PETROLEUM REFINING & PRODS.	78978.4	179808.4	19672.4	35902.0	8472.0
*.02-PAVING MIXTURES & BLOCKS...	10190.1	9174.0	10101.9	18067.7	1184.6
*.03-ASPHALT FELTS & COATINGS...	34588.2	4488.2	2617.0	17520.8	0.0
32-RUBBER, MISC PLASTICS.....	2010.2	606.4	831.4	600.2	222.8
33-LEATHER TANNING & PRODUCTS....	443.4	6.9	0.0	33.5	363.5
34-FOOTWEAR, LEATHER PRODUCTS....	270.5	5.0	0.0	18.5	80.9
35-GLASS & GLASS PRODUCTS.....	890.5	476.8	318.6	298.9	13.6
36-STONE & CLAY PRODUCTS.....	4464.4	2196.4	2114.9	1472.2	473.5
37-PRIMARY IRON, STEEL MFG.....	19729.0	36431.0	12132.4	29714.0	1519.3
38-PRIMARY NONFERROUS MFG.....	4117.5	5252.2	1331.0	2793.8	183.6
39-METAL CONTAINERS.....	330.8	26.4	17.1	24.3	75.4
40-FABRICATED METAL PRODUCTS.....	904.0	506.9	264.7	241.3	314.3
41-SCREW MACHINE PRODUCTS, ETC...	1391.1	411.7	792.9	302.8	247.2

INDUSTRY NUMBER AND TITLE	IL	IN	MN	OH	WI
42-OTHER FABRICATED METAL PRODS..	3450.3	945.0	1055.7	652.3	424.8
43-ENGINES & TURBINES.....	704.8	871.5	683.6	88.1	1093.2
44-FARM MACHINERY & EQUIPMENT....	787.5	249.5	151.7	43.6	359.9
45-CONSTRUCTION MACH & EQUIPMENT.	2501.1	311.3	376.2	232.3	589.3
46-MATERIALS HAND MACH & EQUIP...	198.4	41.3	144.6	60.2	72.4
47-METALWORKING MACH & EQUIPMENT.	774.1	263.7	959.8	372.3	233.1
48-SPECIAL MACHINERY & EQUIPMENT.	422.5	233.7	190.4	138.4	241.4
49-GENERAL MACHINERY & EQUIPMENT.	618.9	802.8	282.6	264.8	289.4
50-MACHINE SHOP PRODUCTS.....	373.5	272.2	332.3	109.2	103.6
51-OFFICE, COMPUTING MACHINES....	106.4	1.8	57.5	76.8	13.5
52-SERVICE INDUSTRY MACHINES.....	209.5	183.8	210.2	101.6	91.8
53-ELECTRIC TRANSMISSION EQUIP...	610.4	163.1	78.4	109.9	341.5
54-HOUSEHOLD APPLIANCES.....	983.2	246.6	122.8	187.5	141.9
55-ELECTRIC LIGHTING EQUIPMENT...	399.6	81.3	14.3	44.6	18.3
56-RADIO, TV, ETC EQUIPMENT.....	169.6	31.2	3.3	2.4	8.0
57-ELECTRONIC COMPONENTS.....	667.2	156.5	4.8	23.9	28.9
58-MISC ELECTRICAL MACHINERY.....	300.8	400.3	142.3	48.0	65.8
59-MOTOR VEHICLES, EQUIPMENT.....	1015.7	1893.9	3658.1	745.3	500.6
60-AIRCRAFT & PARTS.....	140.8	542.9	54.8	230.8	3.5
61-OTHER TRANSPORT EQUIPMENT.....	112.2	83.1	9.7	7.7	8.1
62-PROFESSIONAL, SCIENT EQUIP....	849.0	75.2	89.4	15.2	34.0
63-MEDICAL, PHOTOG EQUIPMENT.....	499.0	97.5	10.1	1.3	2.2
64-MISC MANUFACTURING.....	843.6	247.0	23.6	300.0	125.4
65-TRANSPORT & WAREHOUSING.....					
*.01-RAILROADS & RELATED SVCES..	44723.2	14863.9	10280.3	27613.1	11899.2
*.02-LAND PASSENGER TRANSPORT, +++					
*.03-MOTOR FREIGHT TRANSPORT....	36272.3	24157.7	22158.4	38973.7	13042.8
*.04-WATER TRANSPORT.....	3146.2	1572.6	2057.4	3508.8	1391.8
*.05-AIR TRANSPORT.....	109820.8	5265.0	19603.7	20833.9	6385.2
*.06-PIPELINES, EXC NATURAL GAS.	1130.2	530.4	784.7	554.3	167.7
*.07-TRANSPORT SERVICES.....	0.0	0.0	0.0	0.0	0.0
66-COMMUNIC, EXCL BROADCASTING...	4976.8	2710.4	2770.8	2752.1	1130.0
67-RADIO & TV BROADCASTING.....	32.7	8.5	21.4	24.4	7.4
68-ELEC, GAS, WATER, & SANIT SVC.	2061.6	853.6	594.4	1519.4	490.8
*.01-ELECTRIC UTILITIES.....	1241.0	643.4	84.1	843.4	272.0
*.02-GAS UTILITIES.....	417.9	24.5	193.1	292.8	60.6
*.03-WATER & SANITARY SERVICES..	402.7	185.8	317.2	383.1	158.2
69-WHOLESALE & RETAIL TRADE.....	107876.3	35626.5	66150.2	78999.3	29722.3
70-FINANCE & INSURANCE.....	6282.2	1872.8	3138.1	3830.4	1519.4
71-REAL ESTATE & RENTAL.....	51398.7	14802.6	30777.2	37833.9	14071.5
72-HOTELS, REPAIR SVC,EXC AUTO...	15636.4	5412.4	9547.8	11187.9	4516.0
73-BUSINESS SERVICES.....	11620.6	1535.4	5903.1	5513.6	1755.7
75-AUTO REPAIR & SERVICES.....	10261.5	4050.4	8251.2	8907.2	3304.2
76-AMUSEMENTS.....	948.3	217.5	582.6	716.5	199.9
77-MED, ED SERV, NONPROF ORGAN...	14637.5	4344.1	8931.2	11351.1	4619.4
78-FEDERAL GOVT ENTERPRISES.....	4555.6	788.3	1395.9	1849.8	668.8
79-STATE & LOCAL GOVT ENTERPRISE.	2127.7	740.1	2451.5	2867.8	462.5
88-DOMESTIC FINAL DEMAND.....	583772.4	357621.8	549427.5	562187.8	310430.6
89- ** STATE TOTAL.....	1368536.0	797389.4	889002.9	1044610.1	488992.4

SEE FOOTNOTES AT END OF TABLE

INDUSTRY NUMBER AND TITLE	WEST NORTH CENTRAL						
	IA	KA	MI	MO	NB	ND	SD
01-LIVESTOCK & LIVESTOCK PRODS...	33273.1	18081.5	22748.7	18545.1	17169.7	10478.0	17107.9
02-OTHER AGRICULTURAL PRODS.....	27819.8	18616.8	24383.2	13029.7	20767.3	24341.0	95318.9
03-FORESTRY & FISHERY PRODS.....	34.6	12.6	210.5	141.4	9.4	9.4	44.0
04-AG,FORESTRY, & FISHERY SVCES..	175.9	76.8	182.2	132.1	87.0	45.1	54.5
05-IRON & FERRO ORES MINING.....	16.7	0.0	4728.2	341.5	0.0	0.0	0.0
06-NONFERROUS METAL ORES MINING..	0.0	14.3	0.0	321.1	0.0	0.0	61.5
07-COAL MINING.....	49.3	61.7	0.0	33.5	0.0	54.5	0.0
08-CRUDE PETROLEUM & NATURAL GAS.	0.0	1358.0	4.4	33.2	6.6	90.7	0.0
09-STONE & CLAY MINING.....	1078.3	503.7	407.9	1188.4	436.3	104.6	303.3
10-CHEM & FERTILIZER MINERAL MNG.	28.7	28.7	28.7	115.4	28.7	0.0	0.0
11-NEW CONSTRUCTION.....	10098.0	11579.8	13274.8	22903.7	5325.3	1944.6	2434.1
12-MAINT & REPAIR CONSTRUCTION...	4339.3	3777.4	3386.1	4722.9	2599.1	1543.7	1586.2
13-ORDNANCE & ACCESSORIES.....	97.5	455.7	1746.5	1286.1	687.9	0.0	0.0
14-FOOD & KINDRED PRODUCTS.....	4954.9	789.5	6702.1	2071.4	1027.3	793.2	1123.4
15-TOBACCO MANUFACTURES.....	0.0	0.0	0.0	21.6	0.0	0.0	0.0
16-FABRICS.....	1.9	0.0	26.0	4.9	0.0	0.0	0.0
17-TEXTILE PRODUCTS.....	0.5	0.0	133.5	4.3	0.0	0.0	0.0
18-APPAREL.....	0.0	0.0	208.5	266.4	0.0	0.0	0.0
19-MISC TEXTILE PRODUCTS.....	0.0	0.0	17.3	20.6	0.0	0.0	0.0
20-LUMBER & WOOD PRODUCTS.....	105.0	0.0	215.2	363.6	150.1	0.0	134.7
21-WOODEN CONTAINERS.....	2.3	0.0	2.0	9.6	0.0	0.0	0.0
22-HOUSEHOLD FURNITURE.....	24.4	1.6	25.1	0.0	0.0	0.0	0.0
23-OTHER FURNITURE.....	26.2	0.9	23.7	0.0	0.0	0.0	0.0
24-PAPER & ALLIED PRODUCTS.....	91.8	20.7	1469.6	322.5	7.5	0.0	0.0
25-PAPERBOARD CONTAINERS.....	13.2	5.7	30.2	53.6	1.8	0.0	0.0
26-PRINTING & PUBLISHING.....	152.9	99.4	646.7	225.9	0.0	11.3	12.6
27-CHEMICALS, SELECTED PRODUCTS..	245.7	1663.8	777.1	1925.2	522.8	0.0	0.0
28-PLASTICS & SYNTHETICS.....	323.1	127.3	196.1	89.4	0.0	0.0	0.0
29-DRUGS & COSMETICS.....	27.7	181.3	107.2	246.6	41.9	0.0	0.0
30-PAINT & ALLIED PRODUCTS.....	50.9	36.7	80.9	341.5	0.0	0.0	0.0
31-PETROLEUM, RELATED INDUSTRIES.	861.5	24595.4	33268.0	22150.6	0.0	12348.8	0.0
*.01-PETROLEUM REFINING & PRODS.	861.5	19244.6	27851.9	17662.4	0.0	12348.8	0.0
*.02-PAVING MIXTURES & BLOCKS...	0.0	4307.3	1292.4	0.0	0.0	0.0	0.0
*.03-ASPHALT FELTS & COATINGS...	0.0	1043.6	4123.7	4488.2	0.0	0.0	0.0
32-RUBBER, MISC PLASTICS.....	346.5	46.0	37.3	66.3	16.6	0.0	0.2
33-LEATHER TANNING & PRODUCTS....	0.0	0.0	9.0	6.7	0.0	0.0	0.0
34-FOOTWEAR, LEATHER PRODUCTS....	0.8	0.0	2.8	58.7	0.0	0.0	0.0
35-GLASS & GLASS PRODUCTS.....	14.2	0.0	68.9	54.8	0.0	0.0	0.0
36-STONE & CLAY PRODUCTS.....	1220.8	484.1	1643.1	760.0	4.1	70.3	119.7
37-PRIMARY IRON, STEEL MFG.....	66.9	73.6	2965.1	583.6	5.7	0.0	53.5
38-PRIMARY NONFERROUS MFG.....	58.2	37.7	435.2	233.7	78.5	0.0	0.0
39-METAL CONTAINERS.....	0.0	0.0	102.3	19.3	12.0	0.0	0.0
40-FABRICATED METAL PRODUCTS.....	128.1	38.5	234.4	57.2	59.6	5.2	12.4
41-SCREW MACHINE PRODUCTS, ETC...	20.8	1.4	149.1	14.8	0.0	0.0	0.0

INDUSTRY NUMBER AND TITLE	IA	KA	MT	MO	NB	ND	SD
42-OTHER FABRICATED METAL PRODS..	272.5	23.9	353.1	90.7	41.0	0.0	0.0
43-ENGINES & TURBINES.....	41.1	0.0	8.9	2.3	0.0	0.0	0.0
44-FARM MACHINERY & EQUIPMENT....	286.9	3.9	74.8	34.1	0.0	0.0	3.3
45-CONSTRUCTION MACH & EQUIPMENT.	309.6	3.6	136.1	23.3	0.0	0.0	0.0
46-MATERIALS HAND MACH & EQUIP...	7.8	0.9	9.1	5.1	0.0	0.0	2.6
47-METALWORKING MACH & EQUIPMENT.	20.4	0.5	37.0	29.6	0.0	0.0	1.4
48-SPECIAL MACHINERY & EQUIPMENT.	29.2	1.6	24.9	19.6	0.0	0.0	0.0
49-GENERAL MACHINERY & EQUIPMENT.	18.7	2.9	52.2	20.0	0.0	0.0	0.0
50-MACHINE SHOP PRODUCTS.....	9.3	4.6	57.6	71.9	0.0	0.0	4.7
51-OFFICE, COMPUTING MACHINES....	0.0	0.0	178.1	5.1	0.0	0.0	0.0
52-SERVICE INDUSTRY MACHINES.....	12.6	0.8	70.6	52.0	0.0	0.0	0.0
53-ELECTRIC TRANSMISSION EQUIP...	35.8	0.0	38.2	65.9	3.5	0.0	2.7
54-HOUSEHOLD APPLIANCES.....	142.5	0.0	63.0	33.1	0.0	0.0	0.0
55-ELECTRIC LIGHTING EQUIPMENT...	0.0	4.0	6.0	36.3	0.0	0.0	0.0
56-RADIO, TV, ETC EQUIPMENT.....	18.3	0.4	2.4	5.0	5.7	0.0	0.0
57-ELECTRONIC COMPONENTS.....	44.7	14.4	26.9	6.1	21.3	0.0	8.6
58-MISC ELECTRICAL MACHINERY.....	28.3	57.8	11.9	15.6	1.4	0.0	0.0
59-MOTOR VEHICLES, EQUIPMENT.....	29.4	74.9	274.4	337.6	5.1	0.0	11.7
60-AIRCRAFT & PARTS.....	3.3	74.2	44.7	181.2	0.0	0.0	3.8
61-OTHER TRANSPORT EQUIPMENT.....	1.9	2.0	8.3	3.3	0.8	0.0	0.0
62-PROFESSIONAL, SCIENT EQUIP....	11.5	2.0	157.2	64.6	26.6	0.0	0.0
63-MEDICAL, PHOTOG EQUIPMENT.....	0.0	0.0	190.8	9.7	0.0	0.0	0.0
64-MISC MANUFACTURING.....	27.3	170.4	146.9	61.3	52.7	0.6	0.7
65-TRANSPORT & WAREHOUSING.....							
*.01-RAILROADS & RELATED SVCES..	7826.6	15653.1	11676.6	14246.7	10118.4	6148.9	1118.1
*.02-LAND PASSENGER TRANSPORT, +++							
*.03-MOTOR FREIGHT TRANSPORT....	14256.6	10760.3	13899.6	21658.6	6840.3	3420.2	2921.5
*.04-WATER TRANSPORT.....	60.5	6.1	181.5	3872.4	0.0	0.0	0.0
*.05-AIR TRANSPORT.....	1232.2	2016.4	16803.2	29685.6	2464.5	896.2	560.1
*.06-PIPELINES, EXC NATURAL GAS.	258.7	1273.4	804.3	1102.0	352.2	232.6	26.1
*.07-TRANSPORT SERVICES.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66-COMMUNIC, EXCL BROADCASTING...	757.6	482.8	1208.3	970.5	865.5	159.2	161.6
67-RADIO & TV BROADCASTING.....	4.8	2.9	7.2	11.4	3.2	1.9	0.8
68-ELEC, GAS, WATER, & SANIT SVC.	654.9	1749.5	1156.1	726.9	445.7	256.0	25.8
*.01-ELECTRIC UTILITIES.....	288.4	414.1	963.7	329.0	167.4	232.5	0.0
*.02-GAS UTILITIES.....	263.5	1254.9	58.1	231.0	224.6	0.3	1.1
*.03-WATER & SANITARY SERVICES..	103.1	80.5	134.3	166.9	53.7	23.2	24.7
69-WHOLESALE & RETAIL TRADE.....	21871.3	15218.5	30648.3	40863.8	12543.0	4543.8	4363.7
70-FINANCE & INSURANCE.....	932.7	663.3	2034.4	2334.3	714.4	170.3	175.6
71-REAL ESTATE & RENTAL.....	7326.2	6120.7	13227.7	14826.6	3993.0	1296.6	1256.2
72-HOTELS, REPAIR SVC,EXC AUTO...	3219.1	2690.4	4419.7	5887.1	2031.3	676.7	716.6
73-BUSINESS SERVICES.....	806.4	598.0	1899.7	2942.7	567.9	113.6	108.1
75-AUTO REPAIR & SERVICES.....	2409.0	1919.4	3232.8	4285.8	1374.8	693.6	557.2
76-AMUSEMENTS.....	130.2	97.9	202.5	289.3	100.9	25.2	47.9
77-MED, ED SERV, NONPROF ORGAN...	2621.1	1890.4	4615.3	5582.7	1422.7	618.1	569.7
78-FEDERAL GOVT ENTERPRISES.....	494.7	461.7	766.7	1103.5	333.8	156.1	145.9
79-STATE & LOCAL GOVT ENTERPRISE.	647.6	416.3	786.3	693.8	971.3	46.3	92.5
88-DOMESTIC FINAL DEMAND.....	211171.7	139318.1	276914.6	273710.1	99312.1	60164.7	60400.2
89- ** STATE TOTAL.....	363781.8	284551.5	507134.9	518733.3	193658.0	131460.8	191654.1

SEE FOOTNOTES AT END OF TABLE

SOUTH ATLANTIC

INDUSTRY NUMBER AND TITLE	DE	FL	GA	MD	DC	NC	SC	VA	WV
01-LIVESTOCK & LIVESTOCK PRODS...	816.8	3579.2	7912.6	2837.4	0.0	7256.6	3034.5	4892.1	1111.9
02-OTHER AGRICULTURAL PRODS.....	807.2	11395.7	8828.8	2803.1	0.0	15485.9	6475.8	5460.6	505.8
03-FORESTRY & FISHERY PRODS.....	22.0	1391.9	842.1	700.7	0.0	1074.6	553.0	1338.5	295.4
04-AG,FORESTRY, & FISHERY SVCES..	32.0	92.8	349.4	84.1	0.0	230.7	63.7	84.6	68.6
05-IRON & FERRO ORES MINING.....	0.0	33.3	35.8	0.0	0.0	0.0	16.7	29.2	20.8
06-NONFERROUS METAL ORES MINING..	0.0	32.1	75.8	0.0	0.0	0.0	0.0	43.7	0.0
07-COAL MINING.....	0.0	0.0	0.0	137.5	0.0	0.0	0.0	274.9	2422.6
08-CRUDE PETROLEUM & NATURAL GAS.	0.0	2.2	0.0	0.0	0.0	0.0	0.0	35.4	869.2
09-STONE & CLAY MINING.....	138.3	961.3	2041.4	266.0	37.2	1441.9	760.9	1282.4	622.5
10-CHEM & FERTILIZER MINERAL MNG.	58.1	1728.9	115.4	28.7	0.0	260.2	28.7	28.7	28.7
11-NEW CONSTRUCTION.....	2512.0	31267.9	21771.4	17348.8	4166.2	19783.7	11551.9	19192.1	7461.4
12-MAINT & REPAIR CONSTRUCTION...	519.5	8773.0	3692.6	3987.9	744.6	4425.1	1316.0	4063.1	1466.7
13-ORDNANCE & ACCESSORIES.....	0.0	0.0	51.4	728.0	0.0	22.2	1.5	199.1	125.8
14-FOOD & KINDRED PRODUCTS.....	2166.8	10148.8	3176.6	8353.5	878.9	3328.2	527.3	3970.0	46.8
15-TOBACCO MANUFACTURES.....	0.0	130.4	30.1	0.0	0.0	955.2	31.0	1316.3	26.6
16-FABRICS.....	9.0	48.7	5035.9	30.0	0.0	8219.8	4080.4	612.8	0.0
17-TEXTILE PRODUCTS.....	7.6	0.0	0.0	0.0	0.0	605.1	396.0	93.4	0.0
18-APPAREL.....	0.0	146.1	287.9	520.8	0.0	1260.4	589.5	1345.8	0.0
19-MISC TEXTILE PRODUCTS.....	0.0	7.3	27.6	24.9	0.0	71.3	48.7	50.1	0.0
20-LUMBER & WOOD PRODUCTS.....	71.8	1016.9	2338.1	593.9	27.8	2131.6	2605.8	2822.9	633.5
21-WOODEN CONTAINERS.....	0.0	0.0	42.1	15.3	0.0	13.8	21.3	33.4	0.0
22-HOUSEHOLD FURNITURE.....	0.0	13.8	21.1	117.5	0.0	406.5	94.3	121.3	8.8
23-OTHER FURNITURE.....	0.0	6.6	6.6	83.2	0.0	33.7	11.9	15.2	3.7
24-PAPER & ALLIED PRODUCTS.....	6.4	15544.7	23151.3	870.5	13.9	15321.8	17143.4	7985.2	17.2
25-PAPERBOARD CONTAINERS.....	2.5	4260.9	857.6	150.7	0.5	601.8	972.2	244.9	1.4
26-PRINTING & PUBLISHING.....	15.7	199.5	0.0	260.8	403.6	120.0	35.0	218.3	0.0
27-CHEMICALS, SELECTED PRODUCTS..	5863.0	7761.3	4558.3	8592.0	6.0	1550.7	1375.8	3958.1	1106.9
28-PLASTICS & SYNTHETICS.....	29107.5	0.0	3310.0	12513.7	0.0	7506.9	4525.3	22571.2	1091.6
29-DRUGS & COSMETICS.....	517.1	3119.7	28.1	1124.1	0.0	90.4	35.6	191.7	9.2
30-PAINT & ALLIED PRODUCTS.....	0.0	0.0	185.3	1188.4	0.0	196.5	50.0	137.9	0.0
31-PETROLEUM, RELATED INDUSTRIES.	2297.6	17745.6	23996.4	24738.0	0.0	2297.6	7475.9	14640.3	13169.3
*.01-PETROLEUM REFINING & PRODS.	2297.6	10627.3	15791.7	12637.3	0.0	2297.6	3733.5	9763.6	1866.7
*.02-PAVING MIXTURES & BLOCKS...	0.0	4501.3	1464.8	12100.7	0.0	0.0	0.0	3402.9	7990.4
*.03-ASPHALT FELTS & COATINGS...	0.0	2617.0	6739.9	0.0	0.0	0.0	3742.4	1473.8	3312.1
32-RUBBER, MISC PLASTICS.....	524.7	0.0	301.3	1097.6	0.0	720.2	179.9	680.6	7.0
33-LEATHER TANNING & PRODUCTS....	848.0	0.0	0.0	3.7	0.0	9.2	0.0	111.9	0.0
34-FOOTWEAR, LEATHER PRODUCTS....	110.6	0.0	0.0	5.4	0.0	6.6	0.0	65.4	0.0
35-GLASS & GLASS PRODUCTS.....	0.0	0.0	126.3	912.3	0.0	454.0	199.6	224.2	53.6
36-STONE & CLAY PRODUCTS.....	151.7	11662.2	2430.4	7006.4	123.9	2861.9	784.4	2623.9	51.3
37-PRIMARY IRON, STEEL MFG.....	548.5	33.4	251.6	24378.0	0.0	23.6	964.1	454.8	1920.8
38-PRIMARY NONFERROUS MFG.....	502.8	0.0	67.0	3026.8	0.0	43.8	50.9	187.3	510.4
39-METAL CONTAINERS.....	0.0	83.1	9.6	176.7	0.0	0.0	0.0	9.6	15.4
40-FABRICATED METAL PRODUCTS.....	29.8	20.8	29.4	286.1	9.8	119.5	79.2	90.2	74.1
41-SCREW MACHINE PRODUCTS, ETC...	5.4	0.0	2.9	62.6	0.0	28.7	27.7	1.5	10.8

INDUSTRY NUMBER AND TITLE	DE	FL	GA	MD	DC	NC	SC	VA	WV
42-OTHER FABRICATED METAL PRODS..	41.2	0.0	18.6	315.6	0.0	188.5	25.1	78.8	193.0
43-ENGINES & TURBINES.....	0.0	5.9	1.4	0.0	0.0	0.0	0.0	6.3	0.0
44-FARM MACHINERY & EQUIPMENT....	0.0	17.6	1.0	0.0	0.0	17.4	5.9	10.0	22.1
45-CONSTRUCTION MACH & EQUIPMENT.	0.0	12.7	1.5	20.8	0.0	13.9	13.2	52.8	127.7
46-MATERIALS HAND MACH & EQUIP...	0.0	0.0	0.0	24.5	0.0	0.0	5.9	6.8	28.3
47-METALWORKING MACH & EQUIPMENT.	0.0	13.7	1.9	162.3	0.0	14.1	48.2	4.5	29.4
48-SPECIAL MACHINERY & EQUIPMENT.	40.5	14.5	3.6	219.2	0.0	157.0	183.5	43.7	6.9
49-GENERAL MACHINERY & EQUIPMENT.	0.0	16.6	1.6	72.1	0.0	16.0	53.7	39.8	6.0
50-MACHINE SHOP PRODUCTS.....	14.4	49.1	4.6	156.7	0.0	24.2	17.0	30.3	42.1
51-OFFICE, COMPUTING MACHINES....	0.0	11.0	8.2	14.9	0.0	49.4	11.2	19.9	0.0
52-SERVICE INDUSTRY MACHINES.....	15.0	8.9	1.1	82.1	0.0	27.3	5.5	22.5	8.6
53-ELECTRIC TRANSMISSION EQUIP...	0.0	36.8	5.6	48.6	0.0	154.4	56.8	176.3	8.8
54-HOUSEHOLD APPLIANCES.....	12.0	5.8	1.2	5.1	0.0	196.1	65.2	7.9	0.6
55-ELECTRIC LIGHTING EQUIPMENT...	0.0	14.8	2.9	14.9	0.0	73.4	28.9	2.1	19.5
56-RADIO, TV, ETC EQUIPMENT.....	0.0	19.5	3.8	29.0	0.2	19.1	0.5	15.4	0.1
57-ELECTRONIC COMPONENTS.....	2.5	88.2	17.6	30.5	0.0	86.0	94.1	51.0	2.5
58-MISC ELECTRICAL MACHINERY.....	10.1	35.1	7.5	41.4	0.0	166.5	37.0	0.0	0.0
59-MOTOR VEHICLES, EQUIPMENT.....	424.8	14.9	12.0	1177.4	0.0	35.3	24.8	583.7	0.0
60-AIRCRAFT & PARTS.....	6.1	1833.5	83.4	1036.7	0.0	2.9	0.0	8.7	0.0
61-OTHER TRANSPORT EQUIPMENT.....	0.0	26.8	20.0	104.6	0.0	5.5	10.6	196.2	0.0
62-PROFESSIONAL, SCIENT EQUIP....	21.0	0.0	6.1	6.3	0.0	436.8	29.3	52.8	0.9
63-MEDICAL, PHOTOG EQUIPMENT.....	0.0	0.0	0.0	4.0	0.5	40.9	14.9	39.8	0.3
64-MISC MANUFACTURING.....	0.4	0.0	30.5	112.0	0.7	24.0	4.4	69.6	7.1
65-TRANSPORT & WAREHOUSING.....									
*.01-RAILROADS & RELATED SVCES..	279.5	14196.1	12465.9	10563.6	614.9	13528.3	2012.5	13528.3	4415.7
*.02-LAND PASSENGER TRANSPORT, +++									
*.03-MOTOR FREIGHT TRANSPORT....	1567.3	18029.0	24657.5	9334.6	1924.3	19528.5	9833.3	17743.4	5843.1
*.04-WATER TRANSPORT.....	847.0	16938.2	6776.3	21110.7	4.2	544.5	3328.0	12040.6	30.3
*.05-AIR TRANSPORT.....	4.5	81545.5	41327.9	9969.9	15903.0	6273.2	1568.3	15903.0	286.8
*.06-PIPELINES, EXC NATURAL GAS.	2.2	4.3	343.5	104.4	2.8	258.7	189.1	317.4	45.7
*.07-TRANSPORT SERVICES.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66-COMMUNIC, EXCL BROADCASTING...	193.1	1863.6	1309.0	1308.3	601.6	1385.5	518.9	1352.2	452.4
67-RADIO & TV BROADCASTING.....	0.5	11.7	6.9	5.5	5.7	7.8	4.0	6.1	2.7
68-ELEC, GAS, WATER, & SANIT SVC.	551.3	197975.0	1014.2	2167.2	298.7	438.3	1285.4	715.0	721.5
*.01-ELECTRIC UTILITIES.....	531.7	197662.4	717.3	2002.8	255.9	160.2	1139.5	395.5	290.1
*.02-GAS UTILITIES.....	0.0	83.3	135.0	26.5	13.8	95.9	53.0	154.0	366.1
*.03-WATER & SANITARY SERVICES..	19.6	229.4	161.9	137.9	29.0	182.2	92.9	165.5	65.3
69-WHOLESALE & RETAIL TRADE.....	4582.2	44065.6	32316.0	25411.0	8319.0	31027.1	12407.5	25905.4	8372.7
70-FINANCE & INSURANCE.....	312.9	2341.1	1584.0	1254.7	770.9	1331.0	507.5	1243.2	376.0
71-REAL ESTATE & RENTAL.....	2038.0	27771.0	12482.6	17715.1	6524.3	11537.1	5395.1	16470.3	3740.5
72-HOTELS, REPAIR SVC,EXC AUTO...	505.2	10684.8	4567.7	3867.5	2341.4	9383.3	2073.5	4324.5	1352.3
73-BUSINESS SERVICES.....	262.7	3730.0	1912.3	2483.8	1990.1	1178.5	614.7	1640.6	443.4
75-AUTO REPAIR & SERVICES.....	478.3	6182.7	5207.3	4530.0	1078.0	3875.2	1687.8	3276.6	984.1
76-AMUSEMENTS.....	69.8	707.1	199.4	295.7	130.8	189.0	77.4	150.5	109.4
77-MED, ED SERV, NONPROF ORGAN...	548.5	5079.8	2515.0	3723.2	3933.0	3618.0	1152.8	3325.9	1271.8
78-FEDERAL GOVT ENTERPRISES.....	104.5	1150.9	1021.2	638.8	1361.0	826.7	398.6	796.1	250.4
79-STATE & LOCAL GOVT ENTERPRISE.	46.3	1387.6	693.8	416.3	92.5	1156.4	277.5	1156.4	277.5
88-DOMESTIC FINAL DEMAND.....	46996.0	341561.8	233956.6	199850.6	45078.6	362278.6	152945.5	328483.4	74184.5
89- ** STATE TOTAL.....	107669.4	908657.8	500578.7	443483.8	97388.4	569072.9	263120.4	551599.7	137421.4

SEE FOOTNOTES AT END OF TABLE

INDUSTRY NUMBER AND TITLE	EAST SOUTH CENTRAL				WEST SOUTH CENTRAL			
	AL	KY	MS	TE	AS	LA	OK	TX
01-LIVESTOCK & LIVESTOCK PRODS...	6279.9	6541.8	6964.5	6551.8	6429.0	4011.2	8190.8	22300.5
02-OTHER AGRICULTURAL PRODS.....	3671.7	8574.7	8092.9	5714.7	9129.2	7873.7	6018.3	31667.5
03-FORESTRY & FISHERY PRODS.....	1090.3	329.9	908.1	395.9	816.9	1907.2	78.6	2309.4
04-AG,FORESTRY, & FISHERY SVCES..	250.3	44.1	269.2	86.0	347.0	103.5	75.9	577.2
05-IRON & FERRO ORES MINING.....	172.4	18.3	0.0	25.0	0.0	0.0	0.0	33.3
06-NONFERROUS METAL ORES MINING..	43.7	29.4	28.5	145.4	194.4	0.0	45.5	32.1
07-COAL MINING.....	1415.2	2065.5	0.0	165.7	12.3	0.0	24.7	31.7
08-CRUDE PETROLEUM & NATURAL GAS.	28.8	79.6	329.6	0.0	50.9	10886.2	736.5	2464.3
09-STONE & CLAY MINING.....	516.1	801.7	243.0	973.7	406.2	528.5	347.6	1525.3
10-CHEM & FERTILIZER MINERAL MNG.	231.6	58.1	0.0	77.7	77.7	520.5	0.0	376.4
11-NEW CONSTRUCTION.....	10558.1	15045.4	8218.9	14010.7	9259.1	25764.8	12400.4	54931.5
12-MAINT & REPAIR CONSTRUCTION...	2836.3	4163.6	1789.7	2969.7	2136.8	2530.7	3048.4	9028.5
13-ORDNANCE & ACCESSORIES.....	203.1	0.0	0.0	19.3	0.0	259.1	95.6	494.1
14-FOOD & KINDRED PRODUCTS.....	272.0	847.6	218.4	1468.9	65.0	623.4	114.9	832.0
15-TOBACCO MANUFACTURES.....	0.0	368.9	0.0	3.7	0.0	0.0	0.0	0.0
16-FABRICS.....	573.8	4.8	34.2	268.0	43.6	0.0	7.8	79.1
17-TEXTILE PRODUCTS.....	76.3	3.4	78.0	93.6	104.1	9.4	15.9	8.9
18-APPAREL.....	116.1	136.3	28.6	409.9	0.0	0.0	0.0	0.0
19-MISC TEXTILE PRODUCTS.....	4.2	8.0	1.2	16.6	0.0	0.0	0.0	0.0
20-LUMBER & WOOD PRODUCTS.....	2410.6	894.1	262.3	303.9	531.6	91.4	220.4	22.8
21-WOODEN CONTAINERS.....	33.7	70.2	6.9	11.3	7.1	0.7	0.0	0.3
22-HOUSEHOLD FURNITURE.....	44.9	69.0	0.0	92.4	94.6	14.3	0.0	0.7
23-OTHER FURNITURE.....	11.8	7.6	0.0	18.1	21.2	1.5	0.0	0.4
24-PAPER & ALLIED PRODUCTS.....	4997.7	56.7	2386.6	3414.4	1841.9	5802.3	26.1	208.5
25-PAPERBOARD CONTAINERS.....	21.2	8.3	60.5	120.4	28.3	121.5	3.6	13.2
26-PRINTING & PUBLISHING.....	0.0	0.0	20.2	68.6	62.5	66.3	0.0	357.9
27-CHEMICALS, SELECTED PRODUCTS..	1110.1	581.0	494.3	1060.7	4812.4	47.8	0.0	831.9
28-PLASTICS & SYNTHETICS.....	1272.7	1047.4	259.0	1770.2	0.0	24.1	0.0	552.8
29-DRUGS & COSMETICS.....	1.6	1.6	16.7	19.8	17.9	0.1	0.0	6.7
30-PAINT & ALLIED PRODUCTS.....	32.6	115.4	0.0	4.7	44.5	0.4	0.0	34.0
31-PETROLEUM, RELATED INDUSTRIES.	9899.6	8249.2	1579.2	8796.4	7284.5	38574.4	14163.3	106433.6
*.01-PETROLEUM REFINING & PRODS.	574.4	3733.5	1579.2	1148.3	2727.5	31871.9	12209.5	81704.8
*.02-PAVING MIXTURES & BLOCKS...	4307.3	4134.8	0.0	4501.3	2304.5	1916.5	0.0	8248.1
*.03-ASPHALT FELTS & COATINGS...	5018.0	380.9	0.0	3146.8	2252.5	4786.0	1953.9	16480.7
32-RUBBER, MISC PLASTICS.....	1063.3	74.1	34.2	156.3	7.8	1.8	30.3	0.0
33-LEATHER TANNING & PRODUCTS....	0.0	0.0	0.0	0.9	0.0	0.0	0.0	1.6
34-FOOTWEAR, LEATHER PRODUCTS....	3.1	0.0	6.1	1.0	13.4	0.0	0.8	6.4
35-GLASS & GLASS PRODUCTS.....	12.8	18.3	8.5	146.1	172.3	10.5	0.0	60.5
36-STONE & CLAY PRODUCTS.....	1155.5	403.3	166.1	434.8	1997.1	177.3	0.0	1908.8
37-PRIMARY IRON, STEEL MFG.....	4644.0	787.8	0.0	90.9	10.1	0.0	0.0	1338.5
38-PRIMARY NONFERROUS MFG.....	887.9	154.3	0.0	91.2	86.0	0.0	0.0	626.0
39-METAL CONTAINERS.....	2.5	1.6	0.1	7.7	0.0	8.9	0.0	2.1
40-FABRICATED METAL PRODUCTS.....	82.6	40.8	2.0	203.0	0.0	27.6	0.8	11.0
41-SCREW MACHINE PRODUCTS, ETC...	16.6	12.7	0.8	28.9	0.0	1.1	0.0	0.7

INDUSTRY NUMBER AND TITLE	AL	KY	MS	TE	AS	LA	OK	TX
42-OTHER FABRICATED METAL PRODS..	77.9	90.2	1.8	209.3	0.0	16.0	0.4	15.1
43-ENGINES & TURBINES.....	0.3	0.0	0.0	6.5	0.0	0.0	0.0	2.4
44-FARM MACHINERY & EQUIPMENT....	0.7	0.7	10.3	30.5	0.0	0.0	0.0	4.6
45-CONSTRUCTION MACH & EQUIPMENT.	0.7	0.1	10.1	14.7	0.0	0.0	0.0	161.1
46-MATERIALS HAND MACH & EQUIP...	0.4	0.1	4.2	13.5	0.0	0.0	0.0	5.6
47-METALWORKING MACH & EQUIPMENT.	0.1	0.2	0.6	19.9	0.0	0.0	0.0	10.0
48-SPECIAL MACHINERY & EQUIPMENT.	0.8	0.3	3.9	35.1	0.0	0.0	0.0	15.4
49-GENERAL MACHINERY & EQUIPMENT.	0.3	0.7	10.6	23.1	0.0	0.0	0.0	24.6
50-MACHINE SHOP PRODUCTS.....	0.6	0.5	3.7	41.7	0.0	0.0	0.0	25.8
51-OFFICE, COMPUTING MACHINES....	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.4
52-SERVICE INDUSTRY MACHINES.....	0.8	0.6	3.2	27.5	0.0	0.0	0.0	33.5
53-ELECTRIC TRANSMISSION EQUIP...	9.1	4.9	24.7	43.3	0.0	0.0	0.0	2.6
54-HOUSEHOLD APPLIANCES.....	0.0	23.3	24.3	179.2	0.0	4.0	0.0	0.3
55-ELECTRIC LIGHTING EQUIPMENT...	6.3	3.2	25.6	36.5	0.0	0.0	0.0	0.9
56-RADIO, TV, ETC EQUIPMENT.....	0.7	0.3	0.2	19.4	0.0	0.7	0.0	0.8
57-ELECTRONIC COMPONENTS.....	4.4	2.9	2.1	9.2	0.0	2.4	0.0	4.6
58-MISC ELECTRICAL MACHINERY.....	4.7	0.6	2.0	18.6	0.0	0.9	0.0	1.5
59-MOTOR VEHICLES, EQUIPMENT.....	51.2	11.4	0.0	21.4	11.3	1.1	0.0	54.4
60-AIRCRAFT & PARTS.....	48.6	0.0	0.0	15.4	2.8	1.7	0.0	152.6
61-OTHER TRANSPORT EQUIPMENT.....	19.0	0.5	0.0	3.3	4.2	3.3	0.0	3.9
62-PROFESSIONAL, SCIENT EQUIP....	1.2	1.6	6.2	5.6	1.6	1.0	1.8	28.8
63-MEDICAL, PHOTOG EQUIPMENT.....	0.0	0.0	0.0	0.0	28.4	0.5	0.0	8.6
64-MISC MANUFACTURING.....	12.6	49.5	0.0	5.2	0.0	6.0	7.5	14.1
65-TRANSPORT & WAREHOUSING.....								
*.01-RAILROADS & RELATED SVCES..	7658.6	12182.5	2068.2	13356.3	6540.5	6037.6	6093.3	30850.9
*.02-LAND PASSENGER TRANSPORT, +++								
*.03-MOTOR FREIGHT TRANSPORT....	13328.4	12257.4	11473.1	17100.8	9976.1	11257.7	12257.4	49814.8
*.04-WATER TRANSPORT.....	13133.3	2238.2	1149.4	9902.7	968.0	61832.0	0.0	83975.9
*.05-AIR TRANSPORT.....	3136.6	9185.7	1120.2	11982.3	896.2	13552.6	5321.0	69223.1
*.06-PIPELINES, EXC NATURAL GAS.	447.8	143.5	600.0	104.4	333.7	1243.1	1371.2	5240.8
*.07-TRANSPORT SERVICES.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66-COMMUNIC, EXCL BROADCASTING...	851.3	750.5	421.3	1173.2	308.1	1065.3	574.4	4233.7
67-RADIO & TV BROADCASTING.....	5.3	4.5	1.9	7.7	2.2	5.2	4.1	19.6
68-ELEC, GAS, WATER, & SANIT SVC.	460.2	788.3	1441.1	630.7	592.4	1396.2	437.6	2088.3
*.01-ELECTRIC UTILITIES.....	0.0	36.4	290.0	0.0	258.9	16.4	35.6	111.4
*.02-GAS UTILITIES.....	333.2	635.0	1069.1	488.5	263.8	1248.5	310.5	1587.2
*.03-WATER & SANITARY SERVICES..	127.0	116.9	82.0	142.3	69.7	131.4	91.4	389.7
69-WHOLESALE & RETAIL TRADE.....	17427.5	16598.1	9972.2	25717.1	9651.2	22345.8	15974.1	77862.9
70-FINANCE & INSURANCE.....	838.1	744.9	429.6	1225.0	453.1	1063.8	922.3	4547.3
71-REAL ESTATE & RENTAL.....	7241.0	7007.8	3658.2	9356.0	3934.0	9039.9	7148.4	34133.5
72-HOTELS, REPAIR SVC,EXC AUTO...	2602.2	2762.0	1649.4	3472.8	1537.9	3100.3	2859.5	12521.3
73-BUSINESS SERVICES.....	1156.9	716.4	386.3	1706.7	333.7	1347.3	834.8	5460.7
75-AUTO REPAIR & SERVICES.....	2398.9	2028.3	1960.7	3087.6	1322.2	3488.2	2149.8	10101.2
76-AMUSEMENTS.....	59.8	155.8	44.8	161.4	74.7	173.8	102.6	532.2
77-MED, ED SERV, NONPROF ORGAN...	1938.9	2260.8	884.8	3236.1	1044.4	2535.8	1962.9	8428.9
78-FEDERAL GOVT ENTERPRISES.....	1018.8	876.5	286.4	1645.1	307.4	1238.6	533.7	2059.9
79-STATE & LOCAL GOVT ENTERPRISE.	971.3	323.8	323.8	1526.4	185.0	462.5	323.8	2081.4
88-DOMESTIC FINAL DEMAND.....	161440.2	164068.9	103732.4	198541.3	96671.4	156953.9	142954.6	606389.5
89- ** STATE TOTAL.....	292399.8	287000.4	174225.3	354950.0	181285.7	398166.8	247481.1	1249245.0

SEE FOOTNOTES AT END OF TABLE

	MOUNTAIN							
INDUSTRY NUMBER AND TITLE	AZ	CO	ID	MT	NV	NM	UT	WY
01-LIVESTOCK & LIVESTOCK PRODS...	2101.8	9288.0	554.5	8855.3	1278.8	2580.1	2750.1	4328.7
02-OTHER AGRICULTURAL PRODS.....	5324.7	6240.7	962.9	8748.6	581.4	2446.7	1607.6	1480.1
03-FORESTRY & FISHERY PRODS.....	235.7	147.7	996.0	813.8	22.0	163.4	44.0	81.7
04-AG,FORESTRY, & FISHERY SVCES..	85.1	55.5	44.1	37.3	5.3	33.9	24.2	15.0
05-IRON & FERRO ORES MINING.....	0.0	540.6	33.3	41.7	71.6	228.2	434.8	71.6
06-NONFERROUS METAL ORES MINING..	4155.4	719.8	444.2	285.4	647.5	934.7	806.3	323.8
07-COAL MINING.....	0.0	111.0	0.0	15.9	0.0	49.3	54.6	31.7
08-CRUDE PETROLEUM & NATURAL GAS.	112.8	108.4	0.0	39.8	17.7	194.6	0.0	278.7
09-STONE & CLAY MINING.....	113.5	246.5	195.1	152.5	60.3	113.5	216.4	134.8
10-CHEM & FERTILIZER MINERAL MNG.	77.7	231.6	28.7	202.1	58.1	1034.2	148.6	202.1
11-NEW CONSTRUCTION.....	6524.7	11238.3	2747.8	5111.8	2287.2	5149.6	4070.5	2175.9
12-MAINT & REPAIR CONSTRUCTION...	1433.8	2451.9	974.9	1237.2	969.7	1260.6	994.8	957.6
13-ORDNANCE & ACCESSORIES.....	167.8	68.5	4.1	0.0	4.1	41.2	34.3	0.0
14-FOOD & KINDRED PRODUCTS.....	63.3	1799.2	989.1	97.1	8.7	34.6	149.1	50.7
15-TOBACCO MANUFACTURES.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16-FABRICS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17-TEXTILE PRODUCTS.....	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0
18-APPAREL.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19-MISC TEXTILE PRODUCTS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-LUMBER & WOOD PRODUCTS.....	7.1	247.5	622.6	580.2	54.2	261.4	149.4	147.9
21-WOODEN CONTAINERS.....	0.0	15.3	0.0	0.0	0.0	0.0	0.0	0.0
22-HOUSEHOLD FURNITURE.....	8.9	13.0	1.6	0.0	2.5	1.6	6.8	0.0
23-OTHER FURNITURE.....	2.3	7.1	0.0	0.0	0.0	0.0	3.9	0.0
24-PAPER & ALLIED PRODUCTS.....	23.5	3.9	55.2	18.4	0.0	0.0	4.2	0.0
25-PAPERBOARD CONTAINERS.....	1.2	0.8	0.0	0.0	0.0	0.0	0.7	0.0
26-PRINTING & PUBLISHING.....	49.4	0.0	11.6	0.0	14.7	13.0	0.0	6.0
27-CHEMICALS, SELECTED PRODUCTS..	27.7	571.9	27.5	20.1	277.1	0.0	425.9	14.8
28-PLASTICS & SYNTHETICS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29-DRUGS & COSMETICS.....	0.3	6.2	0.0	0.0	0.0	0.0	18.2	0.0
30-PAINT & ALLIED PRODUCTS.....	4.2	53.8	0.0	0.0	0.0	0.0	0.0	0.0
31-PETROLEUM, RELATED INDUSTRIES.	0.0	143.6	0.0	9333.7	0.0	287.2	19688.5	29861.9
*.01-PETROLEUM REFINING & PRODS.	0.0	143.6	0.0	9333.7	0.0	287.2	12060.2	29861.9
*.02-PAVING MIXTURES & BLOCKS...	0.0	0.0	0.0	0.0	0.0	0.0	6137.6	0.0
*.03-ASPHALT FELTS & COATINGS...	0.0	0.0	0.0	0.0	0.0	0.0	1490.7	0.0
32-RUBBER, MISC PLASTICS.....	2.5	44.5	0.0	0.0	0.0	0.6	3.4	0.0
33-LEATHER TANNING & PRODUCTS....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34-FOOTWEAR, LEATHER PRODUCTS....	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0
35-GLASS & GLASS PRODUCTS.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36-STONE & CLAY PRODUCTS.....	383.4	273.0	146.2	10.9	1949.1	151.0	960.0	71.0
37-PRIMARY IRON, STEEL MFG.....	101.8	1518.8	0.0	0.0	0.0	0.0	3843.5	0.0
38-PRIMARY NONFERROUS MFG.....	164.7	11.1	393.0	982.6	469.5	117.8	407.6	39.3
39-METAL CONTAINERS.....	0.0	3.7	0.0	0.0	0.0	0.0	7.9	0.0
40-FABRICATED METAL PRODUCTS.....	0.0	11.3	11.4	6.4	5.0	8.3	66.0	1.2
41-SCREW MACHINE PRODUCTS, ETC...	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0

INDUSTRY NUMBER AND TITLE	AZ	CO	ID	MT	NV	NM	UT	WY
42-OTHER FABRICATED METAL PRODS..	0.0	24.2	4.9	0.0	0.0	0.0	2.6	0.0
43-ENGINES & TURBINES.....	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0
44-FARM MACHINERY & EQUIPMENT....	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0
45-CONSTRUCTION MACH & EQUIPMENT.	0.0	31.0	0.0	0.0	0.0	0.0	0.0	0.0
46-MATERIALS HAND MACH & EQUIP...	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
47-METALWORKING MACH & EQUIPMENT.	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
48-SPECIAL MACHINERY & EQUIPMENT.	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0
49-GENERAL MACHINERY & EQUIPMENT.	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0
50-MACHINE SHOP PRODUCTS.....	0.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0
51-OFFICE, COMPUTING MACHINES....	0.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0
52-SERVICE INDUSTRY MACHINES.....	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0
53-ELECTRIC TRANSMISSION EQUIP...	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0
54-HOUSEHOLD APPLIANCES.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55-ELECTRIC LIGHTING EQUIPMENT...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56-RADIO, TV, ETC EQUIPMENT.....	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
57-ELECTRONIC COMPONENTS.....	0.2	0.0	3.3	0.0	0.0	4.4	0.0	0.0
58-MISC ELECTRICAL MACHINERY.....	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0
59-MOTOR VEHICLES, EQUIPMENT.....	1.3	0.0	0.0	0.0	0.0	0.0	54.0	0.0
60-AIRCRAFT & PARTS.....	86.3	0.0	0.0	0.0	0.0	0.0	665.7	1.7
61-OTHER TRANSPORT EQUIPMENT.....	0.9	0.0	3.1	0.0	0.0	0.0	7.5	0.0
62-PROFESSIONAL, SCIENT EQUIP....	21.6	7.6	0.0	0.0	0.0	1.1	0.7	0.0
63-MEDICAL, PHOTOG EQUIPMENT.....	0.5	0.9	0.0	0.0	0.0	0.0	0.4	0.0
64-MISC MANUFACTURING.....	3.2	8.2	1.1	0.7	0.8	2.2	4.0	0.0
65-TRANSPORT & WAREHOUSING.....								
*.01-RAILROADS & RELATED SVCES..	7043.4	11059.4	4192.0	9503.2	5143.2	10786.2	14024.1	18162.5
*.02-LAND PASSENGER TRANSPORT, +++								
*.03-MOTOR FREIGHT TRANSPORT....	9976.1	8194.6	2599.0	6128.7	3918.8	8051.8	5700.3	4204.4
*.04-WATER TRANSPORT.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
*.05-AIR TRANSPORT.....	11872.3	25644.9	560.1	1680.3	13662.6	3472.7	4368.8	336.1
*.06-PIPELINES, EXC NATURAL GAS.	158.7	163.0	47.8	191.3	19.6	371.7	165.2	545.7
*.07-TRANSPORT SERVICES.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66-COMMUNIC, EXCL BROADCASTING...	247.6	371.7	246.5	101.2	158.1	156.7	196.7	49.9
67-RADIO & TV BROADCASTING.....	3.2	4.4	0.9	1.0	1.0	1.9	1.8	0.5
68-ELEC, GAS, WATER, & SANIT SVC.	651.1	287.6	95.9	154.8	404.0	10026.5	70.0	106.3
*.01-ELECTRIC UTILITIES.....	69.5	176.8	40.2	112.3	386.8	9454.3	27.2	0.0
*.02-GAS UTILITIES.....	521.4	35.3	30.3	16.4	0.5	535.2	5.0	94.7
*.03-WATER & SANITARY SERVICES..	60.2	75.5	25.4	26.1	16.7	37.0	37.7	11.6
69-WHOLESALE & RETAIL TRADE.....	10181.6	15328.2	4453.7	4589.9	3366.0	5213.8	6205.7	1906.3
70-FINANCE & INSURANCE.....	603.0	945.7	174.8	190.8	154.9	214.8	308.4	83.2
71-REAL ESTATE & RENTAL.....	6473.5	8486.9	1787.7	1787.7	2187.5	2665.8	3365.3	934.9
72-HOTELS, REPAIR SVC,EXC AUTO...	2153.5	2518.8	760.1	643.8	3478.7	931.6	850.6	566.3
73-BUSINESS SERVICES.....	859.3	1074.0	260.1	168.8	499.2	935.2	402.7	76.8
75-AUTO REPAIR & SERVICES.....	1694.0	2122.2	597.2	587.2	604.7	775.0	955.3	303.0
76-AMUSEMENTS.....	96.9	165.2	29.3	24.6	588.3	48.5	58.4	19.3
77-MED, ED SERV, NONPROF ORGAN...	1590.1	2330.0	425.3	607.1	241.7	625.1	1086.3	167.9
78-FEDERAL GOVT ENTERPRISES.....	309.8	456.9	114.7	186.7	94.9	161.5	160.3	61.8
79-STATE & LOCAL GOVT ENTERPRISE.	416.3	416.3	138.8	138.8	46.3	92.5	231.3	46.3
88-DOMESTIC FINAL DEMAND.....	80848.0	112590.2	69461.2	45098.4	31177.1	56695.4	55917.3	28622.5
89- ** STATE TOTAL.....	156464.9	228499.6	95201.1	108375.3	74533.1	116344.6	131724.3	96469.7

SEE FOOTNOTES AT END OF TABLE

INDUSTRY NUMBER AND TITLE	PACIFIC AK	CA	OR	WA	HA	U. S. TOTAL US
01-LIVESTOCK & LIVESTOCK PRODS...	51.1	13337.1	4301.7	4207.4	521.9	394599.8
02-OTHER AGRICULTURAL PRODS.....	31.4	33786.4	7172.6	11659.2	2524.8	564699.9
03-FORESTRY & FISHERY PRODS.....	1860.1	4838.8	5432.6	2956.7	115.6	37550.0
04-AG,FORESTRY, & FISHERY SVCES..	1.0	515.0	55.0	63.7	4.0	5259.0
05-IRON & FERRO ORES MINING.....	0.0	15.0	15.0	15.0	0.0	9079.0
06-NONFERROUS METAL ORES MINING..	242.6	316.6	48.2	44.6	0.0	11130.0
07-COAL MINING.....	30.0	0.0	0.0	0.0	0.0	17370.0
08-CRUDE PETROLEUM & NATURAL GAS.	4339.5	955.3	0.0	0.0	0.0	23730.0
09-STONE & CLAY MINING.....	83.4	2665.7	682.8	670.4	154.4	37180.0
10-CHEM & FERTILIZER MINERAL MNG.	0.0	607.2	28.7	0.0	0.0	6920.0
11-NEW CONSTRUCTION.....	3698.9	78350.1	8883.0	18033.0	3694.6	888799.9
12-MAINT & REPAIR CONSTRUCTION...	287.4	22042.1	2621.6	3839.8	850.5	202499.9
13-ORDNANCE & ACCESSORIES.....	0.0	15.9	0.0	1551.1	0.0	27560.0
14-FOOD & KINDRED PRODUCTS.....	2056.0	7748.5	1896.6	3449.5	6256.6	185699.9
15-TOBACCO MANUFACTURES.....	0.0	0.0	0.0	0.0	0.0	3485.0
16-FABRICS.....	0.0	0.3	19.8	4.9	0.0	45690.0
17-TEXTILE PRODUCTS.....	0.0	1.7	4.6	0.0	0.0	14190.0
18-APPAREL.....	0.0	2544.6	0.0	0.0	0.0	22720.0
19-MISC TEXTILE PRODUCTS.....	0.0	186.6	0.0	0.0	0.0	1381.0
20-LUMBER & WOOD PRODUCTS.....	1094.5	12395.9	11017.4	7861.7	83.1	62120.0
21-WOODEN CONTAINERS.....	0.0	235.7	18.1	4.8	0.0	697.8
22-HOUSEHOLD FURNITURE.....	0.0	0.4	32.7	29.4	9.3	3914.0
23-OTHER FURNITURE.....	0.0	0.2	4.3	8.4	0.0	2033.0
24-PAPER & ALLIED PRODUCTS.....	32.6	5743.5	8102.9	25897.3	3.0	291799.8
25-PAPERBOARD CONTAINERS.....	0.0	628.7	59.6	396.0	0.8	14640.0
26-PRINTING & PUBLISHING.....	5.0	3.9	66.9	102.9	20.9	19230.0
27-CHEMICALS, SELECTED PRODUCTS..	0.0	6330.3	2187.5	6174.0	48.7	199299.9
28-PLASTICS & SYNTHETICS.....	0.0	3979.7	2149.5	678.0	0.0	215499.9
29-DRUGS & COSMETICS.....	0.0	695.8	22.9	37.6	81.0	28510.0
30-PAINT & ALLIED PRODUCTS.....	0.0	1811.2	278.5	601.4	0.0	25460.0
31-PETROLEUM, RELATED INDUSTRIES.	0.0	307137.6	16492.0	68037.1	18518.2	1825999.0
*.01-PETROLEUM REFINING & PRODS.	0.0	275832.2	12776.6	61594.6	18518.2	1442999.0
*.02-PAVING MIXTURES & BLOCKS...	0.0	20291.9	1098.4	5772.1	0.0	215499.9
*.03-ASPHALT FELTS & COATINGS...	0.0	11013.8	2617.0	670.4	0.0	167799.9
32-RUBBER, MISC PLASTICS.....	0.0	162.8	3.7	5.7	0.0	31970.0
33-LEATHER TANNING & PRODUCTS....	0.0	22.1	0.0	0.0	0.0	6634.0
34-FOOTWEAR, LEATHER PRODUCTS....	0.0	9.9	0.2	0.4	0.2	4259.0
35-GLASS & GLASS PRODUCTS.....	0.0	329.2	142.9	75.8	95.0	12640.0
36-STONE & CLAY PRODUCTS.....	0.0	4212.0	1907.4	2347.3	1433.0	111199.9
37-PRIMARY IRON, STEEL MFG.....	0.0	5632.0	560.7	381.6	196.3	237699.9
38-PRIMARY NONFERROUS MFG.....	0.0	1446.2	324.9	910.5	0.0	45470.0
39-METAL CONTAINERS.....	0.0	77.3	16.0	79.5	2.5	2714.0
40-FABRICATED METAL PRODUCTS.....	0.0	227.9	58.0	212.8	3.1	13520.0
41-SCREW MACHINE PRODUCTS, ETC...	0.0	92.5	3.3	12.0	0.0	10570.0

INDUSTRY NUMBER AND TITLE	AK	CA	OR	WA	HA	US
42-OTHER FABRICATED METAL PRODS..	0.0	426.2	76.6	103.8	0.0	40310.0
43-ENGINES & TURBINES.....	0.0	13.6	0.0	0.0	0.0	9713.0
44-FARM MACHINERY & EQUIPMENT....	0.0	3.6	9.9	21.4	0.0	2480.0
45-CONSTRUCTION MACH & EQUIPMENT.	0.0	20.1	38.6	135.8	0.0	7082.0
46-MATERIALS HAND MACH & EQUIP...	0.0	4.3	55.5	10.2	0.0	1697.0
47-METALWORKING MACH & EQUIPMENT.	0.0	15.9	4.2	32.2	0.0	9564.0
48-SPECIAL MACHINERY & EQUIPMENT.	0.0	18.6	64.9	105.2	0.0	8665.0
49-GENERAL MACHINERY & EQUIPMENT.	0.0	21.6	8.3	38.6	0.0	9741.0
50-MACHINE SHOP PRODUCTS.....	0.0	40.1	36.8	221.0	0.0	5394.0
51-OFFICE, COMPUTING MACHINES....	0.0	19.6	0.0	4.8	0.0	3058.0
52-SERVICE INDUSTRY MACHINES.....	0.0	7.4	9.0	10.8	0.0	2852.0
53-ELECTRIC TRANSMISSION EQUIP...	0.0	14.6	150.2	33.1	0.0	7442.0
54-HOUSEHOLD APPLIANCES.....	0.0	4.5	8.9	8.7	0.0	4053.0
55-ELECTRIC LIGHTING EQUIPMENT...	0.0	4.5	0.0	15.2	0.0	3990.0
56-RADIO, TV, ETC EQUIPMENT.....	0.0	3.3	0.6	3.6	0.0	1131.0
57-ELECTRONIC COMPONENTS.....	0.0	20.5	19.1	3.0	0.0	8224.0
58-MISC ELECTRICAL MACHINERY.....	0.0	3.8	17.7	3.5	0.0	2984.0
59-MOTOR VEHICLES, EQUIPMENT.....	0.0	453.4	32.8	30.1	0.0	18860.0
60-AIRCRAFT & PARTS.....	0.0	878.6	18.7	999.8	0.0	17510.0
61-OTHER TRANSPORT EQUIPMENT.....	0.0	20.9	9.8	21.7	0.7	1247.0
62-PROFESSIONAL, SCIENT EQUIP....	0.0	3.6	0.9	0.7	0.0	6287.0
63-MEDICAL, PHOTOG EQUIPMENT.....	0.0	2.8	11.2	2.5	0.0	8247.0
64-MISC MANUFACTURING.....	0.0	0.7	8.0	8.2	0.4	11070.0
65-TRANSPORT & WAREHOUSING.....						3020999.0
*.01-RAILROADS & RELATED SVCES..	111.8	52433.4	12637.9	4863.9	0.0	552499.8
*.02-LAND PASSENGER TRANSPORT, +++	""NATIONAL TOTAL = 17000.0. INCLUDED WITH 65.03.""					
*.03-MOTOR FREIGHT TRANSPORT....	1211.5	65630.4	11614.7	11614.7	926.3	717799.9
*.04-WATER TRANSPORT.....	1270.6	100337.9	7441.9	13729.4	15249.4	608999.8
*.05-AIR TRANSPORT.....	20493.9	191736.4	8625.6	34386.5	52870.1	1119999.0
*.06-PIPELINES, EXC NATURAL GAS.	26.1	889.1	26.1	102.1	0.0	21560.0
*.07-TRANSPORT SERVICES.....	0.0	0.0	0.0	0.0	0.0	0.0
66-COMMUNIC, EXCL BROADCASTING...	35.7	8925.5	687.6	1199.4	307.6	68369.9
67-RADIO & TV BROADCASTING.....	0.6	95.2	3.7	6.1	1.7	525.9
68-ELEC, GAS, WATER, & SANIT SVC.	3965.8	127325.3	221.7	232.1	33463.8	1032999.8
*.01-ELECTRIC UTILITIES.....	3955.6	126215.9	107.5	60.9	33437.0	1013999.9
*.02-GAS UTILITIES.....	0.0	404.0	41.7	54.3	0.0	11890.0
*.03-WATER & SANITARY SERVICES..	10.2	705.4	72.6	116.9	26.8	7258.0
69-WHOLESALE & RETAIL TRADE.....	1671.5	158813.9	17016.8	24844.8	4984.1	1510999.0
70-FINANCE & INSURANCE.....	56.4	11002.0	771.1	1288.0	309.0	96559.9
71-REAL ESTATE & RENTAL.....	1416.9	106972.7	7218.6	14578.2	1994.8	754099.9
72-HOTELS, REPAIR SVC,EXC AUTO...	314.9	28356.5	2509.4	3518.5	1352.3	244399.9
73-BUSINESS SERVICES.....	135.5	18317.8	921.9	1681.9	499.2	137799.9
75-AUTO REPAIR & SERVICES.....	206.6	23238.6	2302.5	3286.7	762.3	182899.9
76-AMUSEMENTS.....	14.9	3570.3	109.6	204.6	69.7	18720.0
77-MED, ED SERV, NONPROF ORGAN...	181.3	23595.0	2170.4	3371.1	48.1	222999.9
78-FEDERAL GOVT ENTERPRISES.....	198.7	4479.4	818.9	968.4	179.3	46180.0
79-STATE & LOCAL GOVT ENTERPRISE.	46.3	4718.0	647.6	2035.2	92.5	43340.0
88-DOMESTIC FINAL DEMAND.....	93818.9	999222.5	140904.4	213084.4	21979.7	12109999.0
89- ** STATE TOTAL.....	138991.1	2450756.0	291843.6	497158.6	169708.2	25348080.0

* NOTE: COUNT ONLY SUBSECTORS WITHIN I/O SECTORS 31, 65, AND 68 WHEN SUMMING COLUMNS.
** NOTE: COLUMNS MAY NOT SUM EXACTLY TO STATE TOTALS OR ROWS TO NATIONAL TOTALS DUE TO INDIVIDUAL ROUNDING.

APPENDIX L

CRUDE OIL & GAS
(10**9 BTU)

STATE LABEL	SECTOR 08 CRUDE OIL & GAS DRILLING	SECTOR 27 CHEMICALS (CARBON BLACK)	SECTOR 31.01 PETROLEUM REFINING	SECTOR 68.02 GAS UTILITIES	TOTAL CRUDE OIL & GAS
CT	0.0	0.0	0.0	67998.6	67998.6
MA	0.0	0.0	0.0	153900.6	153900.6
RI	0.0	0.0	0.0	26845.0	26845.0
VT	0.0	0.0	0.0	1789.3	1789.3
ME	0.0	0.0	0.0	1789.3	1789.3
NH	0.0	0.0	0.0	7157.3	7157.3
NJ	0.0	0.0	1164227.0	311305.6	1475532.0
NY	76.3	0.0	171983.3	692502.8	864562.3
PA	732.4	0.0	144415.1	891061.6	1036209.0
IL	2644.7	0.0	1645610.0	1155506.0	2803760.0
IN	244.7	0.0	1128177.0	518776.2	1647197.0
MN	220.5	0.0	343966.8	861122.7	1205309.0
OH	856.9	0.0	1110151.0	1286677.0	2397684.0
WI	0.0	0.0	41765.9	323822.0	365587.8
IA	0.0	0.0	0.0	331031.4	331031.4
KA	5726.7	0.0	886848.7	490239.1	1382814.0
MI	25.4	0.0	250552.8	345349.9	595928.1
MO	192.0	0.0	167105.9	465206.4	632504.3
NB	38.4	0.0	7370.3	228998.6	236407.2
ND	525.4	0.0	117907.2	21468.0	139900.5
SD	0.0	0.0	0.0	35786.7	35786.7
DE	0.0	0.0	233375.8	26845.0	260220.7
FL	55.8	0.0	7370.3	248724.3	256150.3
GA	0.0	0.0	17198.3	332833.6	350031.9
MD	0.0	0.0	34396.7	152098.3	186494.9
DC	0.0	0.0	0.0	32212.0	32212.0
NC	0.0	0.0	0.0	125263.3	125263.3
SC	0.0	0.0	0.0	118053.9	118053.9
VA	893.5	0.0	83531.8	141384.3	225809.5
WV	1899.1	0.0	29476.8	196856.7	228232.5
AL	1424.1	0.0	312050.8	327426.6	640901.4
KY	4068.7	6893.6	424974.9	203965.9	639903.1
MS	9358.1	0.0	63332.7	284470.4	357161.3
TE	0.0	0.0	194037.9	288075.5	482113.4
AS	10314.2	0.0	2447211.0	327426.6	2784951.0
LA	317361.0	75829.8	1058832.0	787326.3	2239348.0
OK	42589.4	6893.6	6588806.0	331031.4	6969320.0
TX	382257.4	0.0	0.0	2043664.0	2425921.0
AZ	7982.9	0.0	90900.9	171824.0	270707.8
CO	12521.5	0.0	0.0	238010.3	250531.8
ID	0.0	0.0	250552.8	48313.0	298865.8
MT	7485.4	0.0	0.0	82307.3	89792.7
NV	1253.2	0.0	0.0	50105.3	51358.5
NM	13996.4	0.0	248114.1	148493.5	410604.0
UT	0.0	0.0	270274.8	123460.9	393735.7
WY	14942.4	0.0	36856.6	57254.6	109053.6
AK	11270.4	0.0	2994334.0	10734.0	3016337.0
CA	138743.8	18383.0	179299.6	2476228.0	2812654.0
OR	0.0	0.0	358704.9	98418.3	457123.2
WA	0.0	0.0	66333.4	178933.3	245266.7
HA	0.0	0.0	0.0	0.0	0.0
US	0.0	0.0	23169984.0	17869984.0	42137664.0

APPENDIX M

KEY TO REGIONAL AND STATE LABELS*

NE--New England

- CT-Connecticut
- MA-Massachusetts
- RI-Rhode Island
- VT-Vermont
- ME-Maine
- NH-New Hampshire

MAT--Middle Atlantic

- NJ-New Jersey
- NY-New York
- PA-Pennsylvania

ENC--East North Central

- IL-Illinois
- IN-Indiana
- MN-Michigan
- OH-Ohio
- WI-Wisconsin

WNC--West North Central

- IA-Iowa
- KA-Kansas
- MI-Minnesota
- MO-Missouri
- NB-Nebraska
- ND-North Dakota
- SD-South Dakota

SA--South Atlantic

- DE-Delaware
- FL-Florida
- GA-Georgia
- MD-Maryland
- DC-District of Columbia
- NC-North Carolina
- SC-South Carolina
- VA-Virginia
- WV-West Virginia

ESC--East South Central

- AL-Alabama
- KY-Kentucky
- MS-Mississippi
- TE-Tennessee

WSC--West South Central

- AS-Arkansas
- LA-Louisiana
- OK-Oklahoma
- TX-Texas

MTN--Mountain

- AZ-Arizona
- CO-Colorado
- ID-Idaho
- MT-Montana
- NV-Nevada
- NM-New Mexico
- UT-Utah
- WY-Wyoming

PAC--Pacific

- AK-Alaska
- CA-California
- OR-Oregon
- WA-Washington
- HA-Hawaii

US--United States

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*The regions are those defined in the Census of Manufactures.

REFERENCES

1. Air Transport Association of America, Turbine Fuel Forecast 1973-1982 (Washington, D.C.: Air Transport Association of America, 1973).

2. American Gas Assocation, Gas Facts, 1967 Data (Arlington, Va.: American Gas Association, 1968), Section VII, Sales-Quantities.

3. American Iron and Steel Institute, Annual Statistical Report (Washington, D.C.: American Iron and Steel Institute, 1970).

4. American Petroleum Institute, Petroleum Facts and Figures, 1971 (Washington, D.C.: American Petroleum Institute, 1971).

5. D. L. Bobo et al., A Survey of Fuel and Energy Information, Vols. I and II, (Langley, Va.: Mitre Corporation, 1970 and 1971).

6. Clark W. Bullard III and Robert A. Herendeen, Energy Use in Commerical and Industrial Sectors of the U.S. Economy, 1963, (Center for Advanced Computation Document 105, University of Illinois at Urbana-Champaign, Urbana, 1974).

7. Conversation with David Carlton, U.S. Bureau of Mines, Petroleum, Arlington, Va., June 26, 1974.

8. Conversation with Bill Constantz, Civil Aeronautics Board, Washington, D.C., June 6, 1974.

9. Conversation with Robert Crowther, U.S. Bureau of the Census, Industry Statistics Division, Washington, D.C., July 9, 1974.

10. Conversations with Robert Doelger, Edison Electric Institute, Department of Statistics, New York, November 1973.

11. Conversations and correspondence with John Eden, American Gas Association, Department of Statistics, Arlington, Va., November 1973.

12. Edison Electric Institute, Statistical Yearbook of the Electric Utility Industry for 1967 (New York: Edison Electric Institute, 1968).

13. Energy Research Group, Energy Use in the U.S. Economy, 1967, (Center for Advanced Computation Technical Memo. No. 39, University of Illinois at Urbana-Champaign, Urbana, November 1974).

14. Jack Faucett Associates, Inc., 1967 State Estimates of Outputs, Employment, and Payrolls (Chevy Chase, Md.: Jack Faucett Associates, Inc., report forthcoming).

15. Conversations and correspondence with Dan Garnick, U.S. Department of Commerce, Bureau of Economic Analysis, Washington, D.C., March 1974 to May 1974.

16. Bruce Hannon, System Energy and Recycling: A Study of the Beverage Industry, (Center for Advanced Computation Document 23, University of Illinois at Urbana-Champaign, Urbana, 1973).

17. Conversation with W. C. Helt, National Coal Association, Washington, D.C., November 9, 1973.

18. Robert A. Herendeen, An Energy Input-output Matrix for the United States, 1963: User's Guide, (Center for Advanced Computation Document 69, University of Illinois at Urbana-Champaign, Urbana, 1973).

19. Robert A. Herendeen and Anthony Sebald, The Dollar, Energy, and Employment Impacts of Certain Consumer Options, (Center for Advanced Computation Document 97, University of Illinois at Urbana-Champaign, Urbana, 1973).

20. Conversation with Wayne MaCaughey, U.S. Bureau of the Census, Industry Statistics Division, Washington, D.C., October 24, 1973.

21. Conversations and correspondence with Bill Menth, U.S. Bureau of the Census, Industry Statistics Division, Washington, D.C., November 1973 to January 1974.

22. Conversation with John Meyers, Federal Reserve Board, Washington, D.C., November 12, 1973.

23. National Coal Association, Bituminous Coal Facts, 1967 (Washington D.C.: National Coal Association, 1968).

24. _____, Steam Electric Plant Factors, 1967 (Washington, D.C.: National Coal Association, 1968).

25. John M. Rodgers, State Outputs, Employment, and Payrolls for 1947, 1958, and 1963 (Cambridge, Mass.: MIT Press, 1972).

26. Conversation with Willard Savoy, Federal Power Commission, Washington, D.C., November 12, 1973.

27. Conversation with Edward Scholderer, Editor, Fuel Oil and Oil Heat, Cedar Grove, New Jersey, March 2, 1973.

28. Conversation with T. Reed Scollon, U.S. Bureau of Mines, Coal Division, Arlington, Va., November 9, 1973.

29. Conversation with Gene Sheridan, U.S. Bureau of Mines, (Coking) Coal Division, Arlington, Va., June 28, 1974.

30. Conversation with Michael Strock, Air Transport Association of America, Washington, D.C., June 26, 1974.

31. Conversation with Bob Teepee, Peoples Gas Light & Coke Company, Chicago, Illinois, June 1, 1973.

32. U.S. Bureau of the Census, Annual Survey of Manufactures, 1966: Fuels and Electric Energy Consumed in Manufacturing Industries: 1966 (Washington, D.C.: U.S. Government Printing Office, 1967).

33. U.S. Bureau of the Census, Census of Construction Industries, 1967 (Washington, D.C.: U.S. Government Printing Office, 1968).

34. _____, Census of Manufactures, 1967 (Washington, D.C.: U.S. Government Printing Office, 1971).

35. _____, Census of Manufactures, 1963: Fuels and Electric Energy Consumed in Manufacturing Industries: 1962 (Washington, D.C.: U.S. Government Printing Office, 1964).

36. _____, Census of Manufactures, 1967, Special Series: Fuels and Electric Energy Consumed: 1967 (Washington, D.C.: U.S. Government Printing Office, 1971).

37. _____, Census of Manufactures, 1972, Special Report Series: Fuels and Electric Energy Consumed, 1971 (Washington, D.C.: U.S. Government Printing Office, 1973).

38. _____, Census of Mineral Industries, 1967 (Washington, D.C.: U.S. Government Printing Office, 1968).

39. _____, Census of Transportation, 1967 (Washington, D.C.: U.S. Government Printing Office, 1968).

40. U.S. Department of Agriculture - SRS, Agricultural Prices (Washington, D.C., December, 1967, monthly series).

41. Conversation with G. W. Koelling, U. S. Bureau of Mines, Gas Division, Arlington, Va., 21 January 1975.

42. U.S. Department of Agriculture-SRS, Census of Agriculture, 1969 (Washington, D.C.: U.S. Government Printing Office, 1970).

43. _____, Rural Electrification Administration, Annual Statistical Report: Rural Electric Borrowers, 1972 (Washington, D.C.: U.S. Government Printing Office, October 1973).

44. U.S. Department of Commerce, "Definitions and Conventions of the 1963 I/O Study," April 1972.

45. U.S. Department of the Interior, Minerals Yearbook, 1967, vols. I-II, Metals, Minerals, and Fuels (Washington, D.C.: U.S. Government Printing Office, 1968).

46. _____, U.S. Energy Fact Sheets, 1971, by State and Regions, February 1973.

47. U.S. Executive Office of the President, Office of Management and Budget, Standard Industrial Classification Manual (Washington, D.C.: U.S. Government Printing Office, 1972).

48. Conversation with Leonard Westerstrom, U.S. Bureau of Mines, Arlington, Va., June 27, 1974.

49. U.S. Department of Commerce, Statistical Abstract of the United States (Washington, D.C.: U.S. Government Printing Office, 1971).

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